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Surveys of Science Resources Series
National Science Foundation **Detailed Statistical Tables**

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Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Volume XL

July 1992

Project Officer: Mary V. Burke

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National Science Foundation Detailed Statistical Tables

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Contributors

Data collection, preparation, and tabulation were performed by Information Technologies International for the National Science Foundation. The Project Officer this report was Mary V. Burke.

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NOTE: For trend comparison, use only the historical data for fiscal years 1971-92 contained in tables C-143 through C-163 in this Federal Funds, Volume XL series. Do not use data published earlier. These tables incorporate changes in prior-year data made by the agencies to reflect program reclassifications.

GENERAL NOTES

Data in the tables of this publication were derived from the *Survey of Federal Funds for Research and Development, Volume XL*, for fiscal years (FYs) 1990-92. They reflect research and development (R&D) funding levels as reported by 33 Federal agencies in March through October 1991. All agencies that conduct R&D programs were surveyed.

R&D totals in these tables are given in both outlays and obligations. The R&D obligation data are further categorized according to character of work (basic research, applied research, and development), performer, field of science or engineering (for research but not for development), and Federal R&D funding by State. Obligations for research performance at universities and colleges by fields of science or engineering are also shown, as are R&D plant data.

The amounts reported for each year are expressed in obligations or outlays incurred, or expected to be incurred, in that year, regardless of when the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

Data for 1990 are actual, representing completed transactions. Data for 1991 and 1992 are estimated because they do not represent final actions. The Federal Funds survey was conducted during the third quarter of FY 1991. The amounts reported for 1991 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1992 represent administration budget proposals that had not been acted on. Authorization, appropriation, deferral and apportionment actions that were completed after these data were collected will be reflected in later surveys of this series.

Accuracy of the data depends in part on the judgment of the respondent. Since many agency R&D programs are not identified as budget-line items, those agency officials must identify R&D and R&D plant activities within broader programs. Over the years, personnel of the participating agencies have developed increasing skill and consistency in meeting the

survey requirements, and their interaction with the National Science Foundation staff has considerably increased the reliability of the data.

Inquiries relating to Federal Funds for Research and Development, Volume XL, should be directed to Mary Burke, Science and Engineering Activities Program, Division of Science Resources Studies, National Science Foundation, Washington D.C. 20550. Telephone: (202) 634-4300.

SECTION A. TECHNICAL NOTES

Scope and Method

During the period March through October 1991, a total of 33 Federal agencies and their subdivisions--104 individual respondents--submitted data in response to the National Science Foundation's annual Survey of Federal Funds for Research and Development, Volume XL, which was distributed in March 1991. The agencies reported their data as obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for research and development (R&D) activities.

Definitions

The definitions are essentially unchanged from those used in past Federal Funds surveys.

1. An **agency** is an organization of the Federal Government whose principal executive officer reports to the President. The Library of Congress is also included in the survey, however, even though its chief officer reports to the Congress. **Subdivision** refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

2. **Obligations and outlays** reported are consistent with figures shown for fiscal years 1990, 1991, and 1992 appearing in The Budget of the United States Government, Fiscal Year 1992. The R&D data in both agency submissions were based on the same definitions and are reconcilable.

Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

Obligations and outlays cover all transactions that occurred in fiscal year 1990, and those estimated for 1991 and 1992. The data include all Federal funds available to an agency that the agency received or expects to receive, from direct appropriations, trust funds, and special account receipts, corporate income, or other sources, including funds appropriated to the President.

The amounts shown for each year reflect obligations or outlays for that year regardless of when the funds were originally authorized or received, and regardless of whether or not they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

In reporting its obligations or outlays, **each agency includes the amounts transferred to other agencies for support of research and development. The receiving agencies do not report funds transferred to them.** Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.

3. **Funds reported for research and development reflect full cost coverage**. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

4. The **fiscal year** in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, fiscal year 1990 began on October 1, 1989, and ended September 30, 1990.

5. **Research, development, and R&D plant** include all direct, incidental, or related costs resulting from, or necessary to, performance of research and development, and costs of R&D plant as defined below, regardless of whether the R&D is performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

   a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

      In **basic research** the objective of the sponsoring agency is to gain more complete knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

      In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized need may be met.

   b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

   c. Demonstration activities that are part of research or development (i.e., that are intended to prove or to test whether a technology or method does, in fact, work) are included. Demonstrations intended primarily to make information available about new technologies or methods are not included.

   d. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant

category are expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under total conduct of research and development. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

6. **Fields of science and engineering** in this survey consist of eight broad field categories, each consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The term not elsewhere classified (n.e.c.) is used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the detailed fields grouped under each of the broad fields, together with illustrative disciplines of detailed fields.

   The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

   a. **Life sciences** consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences, n.e.c.

      Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.

      Environmental biology: ecosystem sciences; evolutionary biology;

limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.

Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.

Life sciences, n.e.c.

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects, social aspects, and psychological sciences, n.e.c. Examples of the disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology

Social aspects: social psychology; educational, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality

Psychological sciences, n.e.c.

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences, n.e.c. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy

Chemistry: inorganic; organo-metallic; organic; physical

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma

Physical sciences, n.e.c.

d. **Environmental sciences** (terrestrial and extraterrestrial) are, with one exception, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare. The one exception is that obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography and not biology. Environmental sciences comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences, n.e.c. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics

Environmental sciences, n.e.c.

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation

employing such symbols, and in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology

Computer sciences: programming languages; computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis

Mathematics and computer sciences, n.e.c.

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering in this survey is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering, n.e.c. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics

Astronautical: aerospace; space technology

Chemical: petroleum; petroleum refining; process

Civil: architectural; hydraulic; hydrologic; marine; sanitary and environmental; structural; transportation

Electrical: communication; electronic; power

Mechanical: engineering mechanics

Metallurgy and materials: ceramic; mining; textile; welding

Engineering, n.e.c.: agricultural; bioengineering; biomedical; industrial and management; nuclear; ocean; systems

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology, economics, political science, sociology, and social sciences, n.e.c. Examples of disciplines under the fields of social science are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropology

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory

Social sciences, n.e.c.: linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess impact on society of legal systems and practices

h. **Other sciences, n.e.c.:** This category is used for multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science listed above.

7. A **performer** is either an intramural group or organization carrying out an operational function or an extramural organization or person receiving support or providing services under a contract or grant.

a. **Intramural performers** are the agencies of the Federal Government. Their work is carried on directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself, or represent funds that the agency transfers to another Federal agency for performance of work **as long as the ultimate performer is that agency or any Federal agency**. If the ultimate performer is not a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, or other nonprofit institutions, or industrial firms).

NOTE: Intramural activities cover not only the actual intramural R&D performance, but also the costs associated with the planning and administration of both intramural and extramural programs by Federal personnel. Intramural activities also include the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural R&D. For example, the purchase from an extramural source of an operational launch vehicle (i.e., one that has gone beyond the development or prototype stage) that is used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

b. **Extramural performers** are organizations outside the Federal sector that perform R&D with Federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of "off-the-shelf" supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered as part of the costs of intramural performance and not as part of the costs of extramural performance. Extramural performers are identified as follows:

i. **Industrial firms:** Those organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a two-year program above the secondary school level. Included are colleges of liberal arts; schools

of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

iv. **Federally funded research and development centers (FFRDCs):** R&D performing organizations that are exclusively or substantially financed by the Federal Government, and are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or other nonprofit institution.

In general, all of the following criteria are met by an organization before it is included in the FFRDC category: (1) its primary activities include one or more of the following: basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned by, or are funded under contract

with, the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

v. **State and local governments:** State and local government agencies, excluding State or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local institutions excluded in this category are included under the universities-and-colleges category in this report.) R&D activities under the State and local category are performed either by the State or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under this sector and no other.

vi. **Foreign performers:** Foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as NATO, UNESCO, WHO), performing R&D work abroad financed by the Federal Government. Excluded are U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "off-shore" payments. An exception is made in the case of U.S. citizens performing research and development abroad under special foreign currency funds; these activities are included under foreign performers. Foreign scientists performing in the United States are excluded, however.

vii. **Private individuals:** Where an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under "industrial firms."

8. **Federal obligations for research performed at universities and colleges by detailed field of science:** Only six agencies participate in the portion of the survey covering the funding of research at universities and colleges by detailed field of science. These six agencies represent approximately 96 percent of the Federal research obligations to universities and colleges. The six agencies are the Departments of Agriculture, Defense, Energy, and Health and Human Services;

the National Aeronautics and Space Administration (NASA); and the National Science Foundation (NSF).

9. Geographic distribution of 1990 R&D obligations

a. Only the ten largest R&D funding agencies participate in the portion of the survey covering the geographic distribution of obligations for research and development and R&D plant. These ten agencies accounted for approximately 98 percent of total Federal R&D and R&D plant obligations in 1990. The respondents are the Departments of Agriculture, Commerce, Energy, Defense, Health and Human Services, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

b. Actual FY 1990 data were requested in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for research and development as a combined amount.

d. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds survey.

Changes in Reporting

While completing the survey forms each year, agency respondents make revisions to their estimates for the latest two years of the previous report, in this case fiscal years 1990 and 1991. Such revision is part of the budgetary cycle. From time to time survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D

programs. When this occurs, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

Limitations of the Data

Funds for research and development were reported on a three-year basis comparable with the 1992 budget, upon which the data were based. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, and/or R&D plant. The respondents reconciled the data reported to the Federal Funds survey with the amounts for research and development they reported to OMB for the 1992 budget.

Some agencies are not able to report the full costs of research and development. For example, the headquarters costs of planning and administering R&D programs of DOD (estimated at a fraction of 1 percent of the DOD R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. DOD's respondents report obligations for the R&D plant funded under its construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts that are funded from its appropriation for research, development, testing, and evaluation (RDT&E). Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant; R&D plant data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.

SECTION B. FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCs)

The following is the master list of FFRDCs included in the Federal Funds survey for fiscal years 1990-92; the information was current as of the March 1991 mailout of the survey. The list is arranged by sponsoring agency and administering organization.

Department of Defense

Office of the Secretary of Defense

Administered by other nonprofit institutions [1] :

- Institute for Defense Analyses, (IDA), Arlington, VA
- Logistics Management Institute, (LMI), Bethesda, MD
- National Defense Research Institute (RAND Corp. [2]), Santa Monica, CA
- C3I Federal Contract Research Center (MITRE Corp. [3]), Bedford, MA and McLean, VA

Defense Advanced Research Projects Agency

Administered by universities and colleges [4] :

- Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

Department of the Navy

Administered by other nonprofit institutions [1] :

- Center for Naval Analyses, Alexandria, VA

Department of the Air Force

Administered by universities and colleges [4] :

- Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by other nonprofit institutions [1] :

- Aerospace Corporation, El Segundo, CA
- Project Air Force (RAND Corp. [2]), Santa Monica, CA

Department of the Army

Administered by universities and colleges [4] :

- Institute for Advanced Technology (Universities of Texas), Austin, TX

Administered by other nonprofit institutions [1] :

- Arroyo Center (RAND Corp. [2]), Santa Monica, CA

Department of Health and Human Services

National Institutes of Health

Administered by industrial firms:

- Frederick Cancer Research Facility (Program Resources, Inc.; Bioscience Laboratories, Inc.; Harlan Sprague Dawley, Inc.; Data Management Services, Inc.), Frederick, MD

Department of Energy

Administered by industrial firms:

- Bettis Atomic Power Laboratory (Westinghouse-Electric Corp.), West Mifflin, PA
- Hanford Engineering Development Laboratory (Westinghouse-Hanford Corp.), Richland, WA
- Idaho National Engineering Laboratory (E,G&G; Idaho; Rockwell International Corp.; Argonne National Laboratory, West; Westinghouse Electric Corp.), Idaho Falls, ID
- Knolls Atomic Power Laboratory (General Electric Co.), Schenectady, NY
- Energy Technology Engineering Center (Rockwell International Corp.), Canoga Park, CA
- Oak Ridge National Laboratory (Martin Marietta Energy Systems Corp.), Oak Ridge, TN
- Sandia National Laboratories (AT&T Technologies, Inc.), Albuquerque, NM
- Savannah River Laboratory (Westinghouse Electric Corp.), Aiken, S.C.

Administered by universities and colleges [4] :

- Ames Laboratory (Iowa State University of Science and Technology), Ames, IA
- Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, IL
- Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY
- Continuous Electron Beam Accelerator Facility (Southeastern Universities Research Association), Newport News, VA
- Lawrence Berkeley Laboratory (University of California), Berkeley, CA
- Lawrence Livermore National Laboratory (University of California), Livermore, CA
- Fermi National Scientific Laboratory (Universities Research Association, Inc.), Batavia, IL
- Los Alamos National Scientific Laboratory (University of California), Los Alamos, NM
- Oak Ridge Associated Universities (Oak Ridge Associated Universities, Inc.), Oak Ridge, TN
- Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ

- Stanford Linear Accelerator Center (Leland Stanford Jr. University), Stanford, CA

Administered by other nonprofit institutions [1] :

- Inhalation Toxicology Research Institute (Lovelace Medical Foundation), Albuquerque, NM
- Pacific Northwest Laboratories (Battelle Memorial Institute), Richland, WA
- Solar Energy Research Institute (Midwest Research Institute), Golden, CO

National Aeronautics and Space Administration

Administered by universities and colleges [4] :

- Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

National Science Foundation

Administered by universities and colleges [4] :

- National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR
- National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO
- National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc. [5]), Tucson, AZ
- National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV

Nuclear Regulatory Commission

Administered by other nonprofit institutions [1] :

- Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX

Transportation, Department of
Federal Aviation Administration

Administered by other nonprofit institutions [1] :

- Center for Advanced Aviation System Development (Mitre Corp. [3]), McLean, VA

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[1] That is, other than universities and colleges

[2] The following portions of the Rand Corporation, were reported as FFRDCs: Project Air Force, National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), and the Arroyo Center. All other agency support to RAND was reported under "other nonprofit institutions excluding FFRDCs."

[3] Only the C3I Federal Contract Research Center and the Center for Advanced Aviation System Development parts of the MITRE Corporation were reported as FFRDCs. All other agency support to MITRE was reported under "other nonprofit institutions excluding FFRDCs."

[4] This category also includes centers administered by university consortia.

[5] Since February 1984 this center includes three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory and the National Solar Observatory (formerly Sacramento Peak Observatory).

table notes

- Because of rounding, detail may not add to totals.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000 or less than .05 percent.
- The abbreviation "FFRDCs" appearing in statistical tables refers to federally funded research and development centers.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Joint Chiefs of Staff, the Special Operations Command, the Strategic Defense Initiative Organization, the Uniformed Services University of the Health Sciences, and the Washington Headquarters Service.

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Table C-1. Summary of Federal funds for research, development, and R&D plant: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Item	1990	Estimates			
		1991	% Chg 1990-1991	1992	% Chg 1991-1992
Total outlays for research, development, and R&D plant	64,276.5	65,264.0	1.5%	69,728.5	6.8%
Research and development	62,246.8	62,783.5	.9	66,719.9	6.3
R&D plant	2,029.7	2,480.6	22.2	3,008.6	21.3
Total obligations for research, development, and R&D plant	65,950.9	66,227.4	.4	73,484.0	11.0
Research and development	63,667.3	63,217.9	-.7	70,427.4	11.4
Performers:					
Intramural 1/	16,002.5	16,469.2	2.9	17,645.4	7.1
Industrial firms	29,378.3	26,970.2	-8.2	31,929.6	18.4
FFRDCs administered by industrial firms	2,237.6	2,267.2	1.3	2,376.9	4.8
Universities and colleges	9,142.2	10,067.8	10.1	10,475.4	4.0
FFRDCs administered by universities and colleges	3,466.4	3,694.7	6.6	4,126.1	11.7
Other nonprofit institutions	2,249.6	2,549.7	13.3	2,618.5	2.7
FFRDCs administered by nonprofit institutions	632.3	675.9	6.9	713.8	5.6
State and local governments	213.9	241.1	12.7	249.6	3.5
Foreign	344.7	282.1	-18.1	292.2	3.6
Research	21,738.9	24,072.0	10.7	25,683.4	6.7
Performers:					
Intramural 1/	5,953.3	6,540.3	9.9	7,148.2	9.3
Industrial firms	3,199.9	3,650.2	14.1	3,990.0	9.3
FFRDCs administered by industrial firms	542.7	582.5	7.3	617.4	6.0
Universities and colleges	8,141.5	9,077.4	11.5	9,455.5	4.2
FFRDCs administered by universities and colleges	1,808.1	1,867.7	3.3	2,032.9	8.8
Other nonprofit institutions	1,662.2	1,899.4	14.3	1,968.4	3.6
FFRDCs administered by nonprofit institutions	148.2	166.1	12.0	178.8	7.7
State and local governments	126.4	138.3	9.4	134.0	-3.1
Foreign	156.5	150.1	-4.1	158.1	5.4
Fields of science:					
Life sciences	8,837.8	9,670.3	9.4	10,229.9	5.8
Psychology	448.6	486.6	8.5	522.3	7.4
Physical sciences	3,808.7	4,122.7	8.2	4,523.5	9.7
Environmental sciences	2,174.1	2,449.8	12.7	2,627.1	7.2
Mathematics and computer sciences	840.7	945.6	12.5	1,007.0	6.5
Engineering	4,335.2	4,923.5	13.6	5,359.3	8.9
Social sciences	630.0	772.2	22.6	705.7	-8.6
Other sciences, n.e.c.	663.7	701.4	5.7	708.5	1.0
Basic research	11,285.6	12,445.9	10.3	13,208.0	6.1
Performers:					
Intramural 1/	2,366.0	2,591.7	9.5	2,754.8	6.3
Industrial firms	887.5	1,010.3	13.8	1,078.6	6.8
FFRDCs administered by industrial firms	175.4	206.7	17.9	221.8	7.3
Universities and colleges	5,548.2	6,144.1	10.7	6,432.0	4.7
FFRDCs administered by universities and colleges	1,227.3	1,266.2	3.2	1,425.6	12.6
Other nonprofit institutions	924.1	1,057.2	14.4	1,112.6	5.2
FFRDCs administered by nonprofit institutions	59.2	64.3	8.5	72.9	13.5
State and local governments	50.4	57.0	13.1	59.1	3.8
Foreign	47.6	48.6	2.1	50.5	4.0
Fields of science:					
Life sciences	5,177.5	5,609.7	8.3	6,056.4	8.0
Psychology	215.1	236.2	9.8	252.5	6.9
Physical sciences	2,661.5	2,961.6	11.3	3,144.5	6.2
Environmental sciences	1,274.8	1,412.8	10.8	1,509.1	6.8
Mathematics and computer sciences	406.9	452.3	11.2	510.4	12.8
Engineering	1,101.5	1,279.2	16.1	1,212.6	-5.2
Social sciences	146.0	169.3	16.0	172.5	1.8
Other sciences, n.e.c.	302.3	325.0	7.5	350.2	7.7

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-1. Summary of Federal funds for research, development, and R&D plant: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Item	1990	Estimates			
		1991	% Chg 1990-1991	1992	% Chg 1991-1992
Applied research	10,453.3	11,626.0	11.2%	12,475.5	7.3%
Performers:					
Intramural 1/	3,587.3	3,948.6	10.1	4,393.4	11.3
Industrial firms	2,312.4	2,639.9	14.2	2,911.4	10.3
FFRDCs administered by industrial firms	367.3	375.8	2.3	395.6	5.3
Universities and colleges	2,593.4	2,933.3	13.1	3,023.4	3.1
FFRDCs administered by universities and colleges	580.8	601.5	3.6	607.4	1.0
Other nonprofit institutions	738.1	842.3	14.1	855.9	1.6
FFRDCs administered by nonprofit institutions	89.0	101.8	14.4	105.9	4.0
State and local governments	76.1	81.3	6.9	74.9	-7.9
Foreign	109.0	101.5	-6.9	107.6	6.0
Fields of science:					
Life sciences	3,660.3	4,060.6	10.9	4,173.6	2.8
Psychology	233.5	250.4	7.2	269.8	7.8
Physical sciences	1,147.2	1,161.1	1.2	1,379.0	18.8
Environmental sciences	899.3	1,037.1	15.3	1,118.1	7.8
Mathematics and computer sciences	433.9	493.3	13.7	496.7	.7
Engineering	3,233.7	3,644.4	12.7	4,146.8	13.8
Social sciences	484.0	602.9	24.6	533.3	-11.5
Other sciences, n.e.c.	361.5	376.4	4.1	358.3	-4.8
Development	41,928.5	39,146.0	-6.6	44,744.0	14.3
Performers:					
Intramural 1/	10,049.2	9,929.0	-1.2	10,497.2	5.7
Industrial firms	26,178.4	23,319.9	-10.9	27,939.7	19.8
FFRDCs administered by industrial firms	1,694.9	1,684.7	-.6	1,759.4	4.4
Universities and colleges	1,000.6	990.5	-1.0	1,019.9	3.0
FFRDCs administered by universities and colleges	1,658.3	1,827.0	10.2	2,093.1	14.6
Other nonprofit institutions	587.4	650.3	10.7	650.1	*
FFRDCs administered by nonprofit institutions	484.0	509.8	5.3	535.0	4.9
State and local governments	87.5	102.8	17.6	115.6	12.4
Foreign	188.1	132.1	-29.8	134.1	1.6
R&D plant	2,283.6	3,009.4	31.8	3,056.5	1.6
Performers supported:					
Intramural	359.9	654.5	81.9	425.8	-34.9
Industrial firms	884.0	1,141.0	29.1	1,126.8	-1.2
FFRDCs administered by industrial firms	231.0	194.3	-15.9	195.5	.6
Universities and colleges	155.8	173.1	11.1	146.4	-15.5
FFRDCs administered by universities and colleges	495.8	645.9	30.3	678.6	5.1
Other nonprofit institutions	121.3	151.8	25.1	438.1	188.6
FFRDCs administered by nonprofit institutions	31.4	39.9	27.3	42.2	5.5
State and local governments	.5	.6	4.9	.4	-27.5
Foreign	3.9	8.3	110.7	2.8	-65.9

* Percentage less than .05%

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal years 1990, 1991 and 1992

Table C-2. Federal funds for research, development, and R&D plant, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Total, all agencies	65,950.9	66,227.3	73,484.0	64,276.5	65,264.0	69,728.5
Departments						
Department of Agriculture, total	1,210.6	1,368.9	1,369.0	1,196.7	1,293.8	1,314.2
Agricultural Cooperative Service	2.7	2.9	3.0	2.7	2.9	3.0
Agricultural Marketing Service 1/	2.7	3.0	3.2	2.7	3.0	3.2
Agricultural Research Service	589.9	668.2	705.6	603.4	640.7	674.7
Animal & Plant Health Inspection Svc	14.0	8.7	11.7	14.0	8.7	11.7
Cooperative State Research Service	371.1	443.6	398.2	361.9	398.3	375.7
Economic Research Service	50.5	54.4	62.5	50.7	53.8	60.6
Federal Grain Inspection Service	.6	.8	.8	.6	.8	.8
Forest Service	163.5	172.0	166.8	144.5	168.7	165.1
Human Nutrition Information Service	9.0	10.0	12.7	9.0	10.0	12.7
Nat'l Agricultural Statistics Svc	2.8	2.9	3.0	2.7	2.9	3.0
Office of International Cooperation and Development	3.6	2.5	1.6	4.3	4.0	3.8
Department of Commerce, total	453.5	546.6	562.7	441.5	528.8	544.7
Bureau of the Census	6.9	5.5	5.8	6.7	5.7	5.8
Economic Development Administration	1.2	1.2	-	1.5	1.2	.5
National Institute of Standards & Technology	131.0	191.1	206.5	120.3	173.4	188.5
National Oceanic & Atmospheric Administration	306.7	340.8	340.3	306.7	340.8	340.3
National Telecommunications & Information Admin	7.7	8.0	10.0	6.2	7.5	9.6
Office of the Secretary	-	-	-	.0	.2	-
Department of Defense, total	37,755.5	34,445.2	39,202.8	37,140.0	35,491.8	37,581.4
Department of the Army	5,737.2	5,609.7	6,476.7	5,797.1	5,470.6	6,036.4
Military functions	5,702.5	5,567.3	6,415.4	5,762.4	5,428.1	5,975.2
Civil functions (Corps of Engineers)	34.7	42.5	61.3	34.7	42.5	61.3
Department of the Navy	9,646.6	9,015.2	8,502.2	9,453.5	9,156.0	8,719.6
Department of the Air Force	15,153.6	12,113.6	15,427.3	14,888.1	13,359.5	14,598.3
Defense agencies	6,996.8	7,493.8	8,507.6	6,853.6	7,305.6	8,002.0
Test & Eval, Dpty Under Secretary Def	188.7	200.1	275.0	115.8	177.7	214.8
Director, Operational Test & Evaluation	32.6	12.8	14.1	32.0	22.3	10.3
Department of Education	178.8	214.2	224.3	150.7	185.0	217.9
Department of Energy	6,546.6	7,151.2	7,834.2	6,365.3	6,753.6	7,479.6
Department of Health and Human Services, total	8,513.4	9,490.3	9,902.9	8,363.8	8,892.3	9,432.8
Administration for Children and Families 2/	95.4	148.1	153.2	76.7	116.9	152.5
Agency for Health Care Policy & Research 3/	49.7	95.8	34.3	5.3	79.8	52.6
Alcohol, Drug Abuse & Mental Health Administration	842.7	957.2	1,022.2	842.7	957.2	1,022.2
Centers for Disease Control	95.6	109.6	113.3	95.6	109.6	113.3
Food & Drug Administration	122.0	112.5	126.3	95.0	103.1	123.6
Health Care Financing Administration	49.1	69.8	36.0	14.4	44.9	41.1
Health Resources and Services Admin	11.9	10.7	10.9	11.9	10.7	10.9
National Institutes of Health	7,221.3	7,946.6	8,374.1	7,181.1	7,419.2	7,872.3
Office of Assistant Secretary for Health	6.9	10.1	3.9	22.3	21.1	15.6
Office of the Secretary	5.0	8.9	5.0	5.0	8.9	5.0
Social Security Administration	13.9	20.8	23.7	13.9	20.8	23.7
Department of Housing and Urban Development	19.3	31.5	36.4	21.7	19.3	29.7
Department of the Interior, total	522.6	603.6	567.8	503.0	586.0	573.5
Bureau of Land Management	2.8	5.5	11.6	2.8	5.5	11.6
Bureau of Mines	102.3	112.3	82.8	96.7	110.8	93.1
Bureau of Reclamation	5.8	8.6	11.7	5.8	8.6	11.7
Geological Survey	309.7	355.3	340.9	301.3	345.8	341.1
Minerals Management Service	2.0	2.8	6.2	2.0	2.7	4.9
National Park Service	20.1	25.2	29.0	20.1	25.2	29.0
Office of the Secretary	.2	.7	1.1	.2	.7	1.1
Office of Surface Mining Reclamation and Enforcement	.7	1.0	2.9	.8	1.0	2.9
United States Fish and Wildlife Service	78.9	92.2	81.6	73.3	85.7	78.1

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-2. Federal funds for research, development, and R&D plant, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Department of Justice, total	40.5	46.1	43.0	38.2	41.2	45.2
Drug Enforcement Administration	2.4	2.1	3.3	2.4	2.1	3.3
Federal Bureau of Investigation	8.2	10.7	10.8	8.2	10.7	10.8
Federal Prison System	4.5	4.6	4.4	3.2	3.8	4.8
Immigration and Naturalization Service	.4	.4	.4	.4	.4	.4
Office of Justice Programs	25.0	28.3	24.1	24.0	24.3	25.9
Department of Labor, total	73.0	75.4	67.3	45.2	56.0	52.2
Bureau of Labor Statistics	7.3	7.4	7.7	7.3	7.4	7.7
Employment Standards Administration	.1	.2	.1	.1	.2	.1
Employment and Training Administration	53.4	53.0	39.1	25.6	33.6	24.1
Occupational Safety and Health Administration	2.5	3.3	3.3	2.5	3.3	3.3
Office of the Secretary	7.1	8.5	13.9	7.1	8.5	13.9
Pension Benefit Guaranty Corporation	.5	.5	.5	.5	.5	.5
Pension & Welfare Benefits Admin	2.1	2.5	2.6	2.1	2.5	2.6
Department of State	4.7	8.9	9.0	4.7	8.9	9.0
Department of Transportation, total	387.4	435.2	461.6	287.3	392.3	437.7
Coast Guard	20.6	25.0	28.8	21.4	24.4	25.7
Federal Aviation Administration	237.5	248.6	259.9	185.5	246.8	263.4
Federal Highway Administration	90.6	105.6	102.6	44.0	68.0	85.6
Federal Railroad Administration	10.2	25.5	26.3	7.0	24.2	23.9
Maritime Administration	.9	1.0	2.0	.9	1.0	2.0
National Highway Traffic Safety Administration	16.9	21.4	23.7	16.9	17.9	24.9
Office of the Secretary	6.8	4.3	5.9	6.9	5.1	5.7
Research and Special Programs Administration	2.4	2.3	3.0	2.4	2.3	3.0
Urban Mass Transportation Administration	1.6	1.6	9.4	2.3	2.6	3.5
Department of the Treasury, total	25.7	29.4	32.0	25.2	28.8	32.1
Bureau of Engraving and Printing	2.1	4.8	4.7	2.1	4.8	4.7
Internal Revenue Service	16.8	17.9	17.9	16.3	17.3	17.3
Office of Protective Research	.5	.5	.5	.5	.5	.5
United States Customs Service	6.3	5.3	8.6	6.3	5.3	8.6
United States Mint	.1	.9	.3	.1	.9	.9
Department of Veterans Affairs	241.0	254.3	225.9	219.0	219.0	222.2
Other agencies						
Advisory Commission on Intergovernmental Relations	1.5	1.5	1.4	1.2	1.3	1.3
Agency for International Development	347.9	335.3	369.9	347.9	382.4	179.5
Appalachian Regional Commission	.4	.3	-	.4	.3	-
Consumer Product Safety Commission	1.1	1.5	1.3	1.2	1.5	1.3
Environmental Protection Agency	419.7	425.4	482.9	388.5	417.8	450.4
Federal Communications Commission	1.3	1.6	1.4	1.3	1.6	1.4
Federal Trade Commission	.5	.5	.5	.5	.5	.5
General Services Administration	18.0	30.4	-	.7	9.2	23.3
International Trade Commission	9.1	10.9	11.8	9.1	10.9	11.8
Library of Congress	8.4	9.2	9.6	8.4	9.2	9.6
National Aeronautics and Space Administration	7,060.3	8,383.9	9,372.1	6,762.2	7,695.2	8,616.5
National Archives & Records Admin	.4	.7	.6	.4	.7	.6
National Science Foundation	1,728.8	1,920.2	2,241.9	1,563.0	1,830.3	2,020.4
Nuclear Regulatory Commission	217.5	229.6	250.9	223.0	226.0	243.2
Office of Thrift Supervision 4/	4.1	3.3	3.5	4.1	3.3	3.5
Smithsonian Institution	88.8	101.5	115.8	95.4	105.0	111.4
Tennessee Valley Authority	69.8	70.1	78.8	66.7	71.4	78.8
United States Arms Control and Disarmament Agency	.2	.3	2.0	.2	.3	2.0
United States Information Agency	.5	.4	.7	-	.4	.7

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-3. Federal funds for total research and development, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Total, all agencies	63,667.3	63,217.9	70,427.4	62,246.8	62,783.4	66,719.9
Departments						
Department of Agriculture, total	1,108.4	1,218.6	1,255.7	1,072.5	1,147.4	1,192.9
Agricultural Cooperative Service	2.7	2.9	3.0	2.7	2.9	3.0
Agricultural Marketing Service 1/	2.7	3.0	3.2	2.7	3.0	3.2
Agricultural Research Service	545.5	589.1	623.5	548.1	572.7	604.8
Animal & Plant Health Inspection Svc	8.0	8.7	9.2	8.0	8.7	9.2
Cooperative State Research Service	324.2	376.7	373.2	303.9	324.3	330.4
Economic Research Service	50.5	54.4	62.5	50.7	53.8	60.6
Federal Grain Inspection Service	.6	.8	.8	.6	.8	.8
Forest Service	158.6	167.6	163.2	139.6	164.3	161.5
Human Nutrition Information Service	9.0	10.0	12.7	9.0	10.0	12.7
Nat'l Agricultural Statistics Svc	2.8	2.9	3.0	2.7	2.9	3.0
Office of International Cooperation and Development	3.6	2.5	1.6	4.3	4.0	3.8
Department of Commerce, total	438.2	525.9	539.0	426.8	507.9	521.5
Bureau of the Census	6.9	5.5	5.8	6.7	5.7	5.8
Economic Development Administration	1.2	1.2	-	1.5	1.2	.5
National Institute of Standards & Technology	122.3	175.7	186.0	112.3	157.9	168.4
National Oceanic & Atmospheric Administration	300.1	335.5	337.2	300.1	335.5	337.2
National Telecommunications & Information Admin	7.7	8.0	10.0	6.2	7.5	9.6
Office of the Secretary	-	-	-	.0	.2	-
Department of Defense, total	37,268.1	33,966.2	38,769.9	36,703.2	35,037.4	37,120.8
Department of the Army	5,684.1	5,557.2	6,457.5	5,750.2	5,432.4	6,019.5
Military functions	5,649.4	5,514.7	6,396.3	5,715.6	5,389.9	5,958.2
Civil functions (Corps of Engineers)	34.7	42.5	61.3	34.7	42.5	61.3
Department of the Navy	9,586.2	8,849.6	8,427.0	9,352.3	9,058.8	8,617.3
Department of the Air Force	14,831.4	11,900.1	15,115.5	14,687.9	13,102.7	14,304.6
Defense agencies	6,945.2	7,446.5	8,480.8	6,765.0	7,243.5	7,954.4
Test & Eval, Dpty Under Secretary Def	188.7	200.1	275.0	115.8	177.7	214.8
Director, Operational Test & Evaluation	32.6	12.8	14.1	32.0	22.3	10.3
Department of Education	169.9	207.3	222.2	147.9	179.6	214.2
Department of Energy	5,630.6	6,158.7	6,498.7	5,508.4	5,862.6	6,304.6
Department of Health and Human Services, total	8,405.6	9,246.3	9,780.5	8,308.7	8,779.9	9,272.5
Administration for Children and Families 2/	95.4	148.1	153.2	76.7	116.9	152.5
Agency for Health Care Policy & Research 3/	49.7	95.8	34.3	5.3	79.8	52.6
Alcohol, Drug Abuse & Mental Health Administration	842.7	957.2	1,022.2	842.7	957.2	1,022.2
Centers for Disease Control	95.6	109.6	113.3	95.6	109.6	113.3
Food & Drug Administration	99.0	110.0	125.3	94.0	99.0	114.1
Health Care Financing Administration	49.1	69.8	36.0	14.4	44.9	41.1
Health Resources and Services Admin	11.9	10.7	10.9	11.9	10.7	10.9
National Institutes of Health	7,136.5	7,705.1	8,252.7	7,127.0	7,310.9	7,721.5
Office of Assistant Secretary for Health	6.9	10.1	3.9	22.3	21.1	15.6
Office of the Secretary	5.0	8.9	5.0	5.0	8.9	5.0
Social Security Administration	13.9	20.8	23.7	13.9	20.8	23.7
Department of Housing and Urban Development	19.3	31.5	36.4	21.7	19.3	29.7
Department of the Interior, total	508.5	588.8	561.8	492.5	575.4	568.7
Bureau of Land Management	2.8	5.5	11.6	2.8	5.5	11.6
Bureau of Mines	99.3	111.7	82.2	93.6	110.2	92.5
Bureau of Reclamation	5.8	8.6	11.7	5.8	8.6	11.7
Geological Survey	308.4	353.5	339.1	300.0	344.1	339.3
Minerals Management Service	1.9	2.6	5.7	1.8	2.4	4.5
National Park Service	20.1	25.2	29.0	20.1	25.2	29.0
Office of the Secretary	.2	.7	1.1	.2	.7	1.1
Office of Surface Mining Reclamation and Enforcement	.7	1.0	2.9	.8	1.0	2.9
United States Fish and Wildlife Service	69.4	80.1	78.5	67.3	77.7	76.1

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-3. Federal funds for total research and development, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Department of Justice, total	40.5	46.1	43.0	38.2	41.2	45.2
Drug Enforcement Administration	2.4	2.1	3.3	2.4	2.1	3.3
Federal Bureau of Investigation	8.2	10.7	10.8	8.2	10.7	10.8
Federal Prison System	4.5	4.6	4.4	3.2	3.8	4.8
Immigration and Naturalization Service	.4	.4	.4	.4	.4	.4
Office of Justice Programs	25.0	28.3	24.1	24.0	24.3	25.9
Department of Labor, total	73.0	75.4	67.3	45.2	56.0	52.2
Bureau of Labor Statistics	7.3	7.4	7.7	7.3	7.4	7.7
Employment Standards Administration	.1	.2	.1	.1	.2	.1
Employment and Training Administration	53.4	53.0	39.1	25.6	33.6	24.1
Occupational Safety and Health Administration	2.5	3.3	3.3	2.5	3.3	3.3
Office of the Secretary	7.1	8.5	13.9	7.1	8.5	13.9
Pension Benefit Guaranty Corporation	.5	.5	.5	.5	.5	.5
Pension & Welfare Benefits Admin	2.1	2.5	2.6	2.1	2.5	2.6
Department of State	4.7	8.9	9.0	4.7	8.9	9.0
Department of Transportation, total	365.6	414.3	434.9	270.6	373.0	410.8
Coast Guard	20.2	24.6	28.4	21.0	24.0	25.3
Federal Aviation Administration	216.1	230.3	234.1	169.2	229.5	238.0
Federal Highway Administration	90.6	105.6	102.6	44.0	68.0	85.6
Federal Railroad Administration	10.2	23.2	25.8	7.0	22.7	22.8
Maritime Administration	.9	1.0	2.0	.9	1.0	2.0
National Highway Traffic Safety Administration	16.9	21.4	23.7	16.9	17.9	24.9
Office of the Secretary	6.8	4.3	5.9	6.9	5.1	5.7
Research and Special Programs Administration	2.4	2.3	3.0	2.4	2.3	3.0
Urban Mass Transportation Administration	1.6	1.6	9.4	2.3	2.6	3.5
Department of the Treasury, total	25.6	29.3	31.9	25.1	28.7	32.0
Bureau of Engraving and Printing	2.1	4.8	4.7	2.1	4.8	4.7
Internal Revenue Service	16.8	17.9	17.9	16.3	17.3	17.3
Office of Protective Research	.5	.5	.5	.5	.5	.5
United States Customs Service	6.2	5.2	8.5	6.2	5.2	8.5
United States Mint	.1	.9	.3	.1	.9	.9
Department of Veterans Affairs	237.7	243.2	220.8	206.6	212.5	216.7
Other agencies						
Advisory Commission on Intergovernmental Relations	1.5	1.5	1.4	1.2	1.3	1.3
Agency for International Development	334.6	322.4	355.7	334.0	367.1	154.0
Appalachian Regional Commission	.4	.3	-	.4	.3	-
Consumer Product Safety Commission	1.1	1.5	1.3	1.2	1.5	1.3
Environmental Protection Agency	419.7	425.4	482.9	388.5	417.8	450.4
Federal Communications Commission	1.3	1.6	1.4	1.3	1.6	1.4
Federal Trade Commission	.5	.5	.5	.5	.5	.5
General Services Administration	.7	-	-	.7	-	-
International Trade Commission	9.1	10.9	11.8	9.1	10.9	11.8
Library of Congress	8.4	9.2	9.6	8.4	9.2	9.6
National Aeronautics and Space Administration	6,533.2	7,434.6	8,543.0	6,324.3	6,973.6	7,766.9
National Archives & Records Admin	.4	.7	.6	.4	.7	.6
National Science Foundation	1,689.5	1,847.0	2,101.6	1,524.9	1,765.9	1,896.9
Nuclear Regulatory Commission	217.5	229.6	250.9	223.0	226.0	243.2
Office of Thrift Supervision 4/	4.1	3.3	3.5	4.1	3.3	3.5
Smithsonian Institution	84.0	98.2	111.7	90.8	102.1	107.3
Tennessee Valley Authority	64.9	70.0	77.7	61.8	71.3	77.7
United States Arms Control and Disarmament Agency	.2	.3	2.0	.2	.3	2.0
United States Information Agency	.5	.4	.7	-	.4	.7

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-4. Federal obligations for total research and development, by agency and character of work: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	63,667,314	11,285,593	10,453,273	41,928,448
Departments				
Department of Agriculture, total	1,108,380	519,190	550,066	39,124
Agricultural Cooperative Service	2,721	-	2,721	-
Agricultural Marketing Service 1/	2,679	540	1,700	439
Agricultural Research Service	545,539	294,046	218,215	33,278
Animal & Plant Health Inspection Svc	7,970	-	7,970	-
Cooperative State Research Service	324,243	153,726	170,517	-
Economic Research Service	50,534	7,075	43,459	-
Federal Grain Inspection Service	647	-	222	425
Forest Service	158,600	60,300	93,500	4,800
Human Nutrition Information Service	9,031	-	9,031	-
Nat'l Agricultural Statistics Svc	2,786	917	1,869	-
Office of International Cooperation and Development	3,630	2,586	862	182
Department of Commerce, total	438,168	31,382	345,612	61,174
Bureau of the Census	6,851	2,812	2,053	1,986
Economic Development Administration	1,188	-	1,188	-
National Institute of Standards & Technology	122,278	28,570	83,185	10,523
National Oceanic & Atmospheric Administration	300,145	-	252,408	47,737
National Telecommunications & Information Admin	7,706	-	6,778	928
Department of Defense, total	37,268,148	947,621	2,581,608	33,738,919
Department of the Army	5,684,085	185,075	595,162	4,903,848
Department of the Navy	9,586,189	365,032	442,562	8,778,595
Department of the Air Force	14,831,395	197,045	579,299	14,055,051
Defense agencies	6,945,209	200,469	964,585	5,780,155
Test & Eval, Dpty Under Secretary Def	188,710	-	-	188,710
Director, Operational Test & Eval	32,560	-	-	32,560
Department of Education	169,946	4,922	125,330	39,694
Department of Energy	5,630,554	1,504,796	1,065,687	3,060,071
Department of Health and Human Services, total	8,405,641	4,649,031	2,818,062	938,548
Administration for Children and Families 2/	95,415	-	7,728	87,687
Agency for Health Care Policy & Research 3/	49,700	-	44,200	5,500
Alcohol, Drug Abuse & Mental Health Administration	842,650	386,181	415,017	41,452
Centers for Disease Control	95,600	-	95,600	-
Food & Drug Administration	99,000	-	99,000	-
Health Care Financing Administration	49,111	-	49,111	-
Health Resources and Services Admin	11,856	1,150	10,706	-
National Institutes of Health	7,136,500	4,261,700	2,074,100	800,700
Office of Assistant Secretary for Health	6,944	-	5,844	1,100
Office of the Secretary	4,966	-	4,966	-
Social Security Administration	13,899	-	11,790	2,109
Department of Housing and Urban Development	19,258	-	6,595	12,663
Department of the Interior, total	508,509	205,431	269,783	33,295
Bureau of Land Management	2,800	-	2,100	700
Bureau of Mines	99,290	40,647	49,265	9,378
Bureau of Reclamation	5,804	100	5,226	478
Geological Survey	308,387	159,084	134,164	15,139
Minerals Management Service	1,855	-	1,855	-
National Park Service	20,087	-	20,087	-
Office of the Secretary	200	-	-	200
Office of Surface Mining Reclamation and Enforcement	686	-	686	-
United States Fish and Wildlife Service	69,400	5,600	56,400	7,400
Department of Justice, total	40,459	8,802	11,069	20,588
Drug Enforcement Administration	2,377	-	354	2,023
Federal Bureau of Investigation	8,205	-	-	8,205
Federal Prison System	4,500	-	1,800	2,700
Immigration and Naturalization Service	400	-	400	-
Office of Justice Programs	24,977	8,802	8,515	7,660
Department of Labor, total	73,003	300	21,333	51,370
Bureau of Labor Statistics	7,300	-	7,300	-
Employment Standards Administration	53	-	53	-
Employment and Training Administration	53,401	300	5,706	47,395
Occupational Safety and Health Administration	2,526	-	2,526	-
Office of the Secretary	7,148	-	3,338	3,810
Pension Benefit Guaranty Corporation	465	-	300	165
Pension & Welfare Benefits Admin	2,110	-	2,110	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-4. Federal obligations for total research and development, by agency and character of work: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of State	4,692	3,527	1,165	-
Department of Transportation, total	365,635	-	118,945	246,690
Coast Guard	20,230	-	5,058	15,172
Federal Aviation Administration	216,070	-	26,125	189,945
Federal Highway Administration	90,554	-	57,417	33,137
Federal Railroad Administration	10,198	-	8,464	1,734
Maritime Administration	900	-	900	-
National Highway Traffic Safety Administration	16,930	-	16,930	-
Office of the Secretary	6,755	-	1,670	5,085
Research and Special Programs Administration	2,381	-	2,381	-
Urban Mass Transportation Administration	1,617	-	-	1,617
Department of the Treasury, total	25,617	3,360	15,346	6,911
Bureau of Engraving and Printing	2,083	-	1,364	719
Internal Revenue Service	16,800	3,360	13,104	336
Office of Protective Research	478	-	478	-
United States Customs Service	6,200	-	400	5,800
United States Mint	56	-	-	56
Department of Veterans Affairs	237,700	16,200	199,400	22,100
Other agencies				
Advisory Commission on Intergovernmental Relations	1,513	-	1,513	-
Agency for International Development	334,554	5,031	300,188	29,335
Appalachian Regional Commission	401	-	401	-
Consumer Product Safety Commission	1,137	-	440	697
Environmental Protection Agency	419,726	73,632	241,610	104,484
Federal Communications Commission	1,329	-	1,329	-
Federal Trade Commission	459	-	459	-
General Services Administration	665	-	665	-
International Trade Commission	9,065	-	9,065	-
Library of Congress	8,412	295	1,166	6,951
National Aeronautics and Space Administration	6,533,246	1,636,926	1,423,765	3,472,555
National Archives & Records Admin	365	155	100	110
National Science Foundation	1,689,535	1,586,276	103,259	-
Nuclear Regulatory Commission	217,524	-	217,524	-
Office of Thrift Supervision 4/	4,126	-	4,126	-
Smithsonian Institution	83,987	83,987	-	-
Tennessee Valley Authority	64,892	4,729	16,994	43,169
United States Arms Control and Disarmament Agency	218	-	218	-
United States Information Agency	450	-	450	-

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	63,217,934	12,445,936	11,626,031	39,145,967
Departments				
Department of Agriculture, total	1,218,624	562,594	614,214	41,816
Agricultural Cooperative Service	2,870	-	2,870	-
Agricultural Marketing Service 1/	3,014	540	1,972	502
Agricultural Research Service	589,085	317,517	235,634	35,934
Animal & Plant Health Inspection Svc	8,713	-	8,713	-
Cooperative State Research Service	376,722	170,315	206,407	-
Economic Research Service	54,400	7,670	46,730	-
Federal Grain Inspection Service	788	-	334	454
Forest Service	167,600	63,800	99,000	4,800
Human Nutrition Information Service	9,998	-	9,998	-
Nat'l Agricultural Statistics Svc	2,920	961	1,959	-
Office of International Cooperation and Development	2,514	1,791	597	126
Department of Commerce, total	525,869	31,294	413,353	81,222
Bureau of the Census	5,515	1,185	2,425	1,905
Economic Development Administration	1,190	-	1,190	-
National Institute of Standards & Technology	175,678	30,109	110,251	35,318
National Oceanic & Atmospheric Administration	335,510	-	292,439	43,071
National Telecommunications & Information Admin	7,976	-	7,048	928
Department of Defense, total	33,966,243	1,140,358	2,665,488	30,160,397
Department of the Army	5,557,158	178,247	607,829	4,771,082
Department of the Navy	8,849,633	397,278	481,655	7,970,700
Department of the Air Force	11,900,052	185,266	527,249	11,187,537
Defense agencies	7,446,494	379,567	1,048,755	6,018,172
Test & Eval, Dpty Under Secretary Def	200,147	-	-	200,147
Director, Operational Test & Eval	12,759	-	-	12,759
Department of Education	207,256	7,698	148,676	50,882
Department of Energy	6,158,687	1,725,769	1,237,218	3,195,700
Department of Health and Human Services, total	9,246,262	5,041,743	3,158,609	1,045,910
Administration for Children and Families 2/	148,149	-	8,944	139,205
Agency for Health Care Policy & Research 3/	95,800	-	87,200	8,600
Alcohol, Drug Abuse & Mental Health Administration	957,209	431,120	478,097	47,992
Centers for Disease Control	109,600	-	109,600	-
Food & Drug Administration	110,000	-	110,000	-
Health Care Financing Administration	69,778	-	69,778	-
Health Resources and Services Admin	10,746	1,523	9,223	-
National Institutes of Health	7,705,100	4,609,100	2,248,100	847,900
Office of Assistant Secretary for Health	10,131	-	9,631	500
Office of the Secretary	8,928	-	8,928	-
Social Security Administration	20,821	-	19,108	1,713
Department of Housing and Urban Development	31,463	-	11,400	20,063
Department of the Interior, total	588,847	233,277	316,021	39,549
Bureau of Land Management	5,489	1,000	2,719	1,770
Bureau of Mines	111,689	44,302	59,110	8,277
Bureau of Reclamation	8,600	100	7,700	800
Geological Survey	353,487	182,175	153,640	17,672
Minerals Management Service	2,582	-	2,582	-
National Park Service	25,200	-	25,200	-
Office of the Secretary	700	-	-	700
Office of Surface Mining Reclamation and Enforcement	1,000	-	970	30
United States Fish and Wildlife Service	80,100	5,700	64,100	10,300
Department of Justice, total	46,082	6,211	15,103	24,768
Drug Enforcement Administration	2,078	-	345	1,733
Federal Bureau of Investigation	10,679	-	-	10,679
Federal Prison System	4,600	-	1,800	2,800
Immigration and Naturalization Service	400	-	400	-
Office of Justice Programs	28,325	6,211	12,558	9,556
Department of Labor, total	75,404	300	24,487	50,617
Bureau of Labor Statistics	7,400	-	7,400	-
Employment Standards Administration	181	-	181	-
Employment and Training Administration	53,012	300	6,364	46,348
Occupational Safety and Health Administration	3,265	-	3,265	-
Office of the Secretary	8,481	-	4,382	4,099
Pension Benefit Guaranty Corporation	525	-	355	170
Pension & Welfare Benefits Admin	2,540	-	2,540	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of State	8,930	7,734	1,196	-
Department of Transportation, total	414,286	-	145,618	268,668
Coast Guard	24,600	-	6,150	18,450
Federal Aviation Administration	230,323	-	28,013	202,310
Federal Highway Administration	105,585	-	66,922	38,663
Federal Railroad Administration	23,233	-	19,283	3,950
Maritime Administration	1,000	-	1,000	-
National Highway Traffic Safety Administration	21,368	-	21,368	-
Office of the Secretary	4,317	-	622	3,695
Research and Special Programs Administration	2,260	-	2,260	-
Urban Mass Transportation Administration	1,600	-	-	1,600
Department of the Treasury, total	29,281	3,576	18,043	7,662
Bureau of Engraving and Printing	4,775	-	3,095	1,680
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	493	-	493	-
United States Customs Service	5,192	-	510	4,682
United States Mint	943	-	-	943
Department of Veterans Affairs	243,200	15,800	205,100	22,300
Other agencies				
Advisory Commission on Intergovernmental Relations	1,528	-	1,528	-
Agency for International Development	322,441	10,581	279,416	32,444
Appalachian Regional Commission	302	-	302	-
Consumer Product Safety Commission	1,532	-	1,102	430
Environmental Protection Agency	425,428	96,709	245,976	82,743
Federal Communications Commission	1,561	-	1,561	-
Federal Trade Commission	493	-	493	-
International Trade Commission	10,906	-	10,906	-
Library of Congress	9,190	314	1,265	7,611
National Aeronautics and Space Administration	7,434,637	1,729,497	1,734,373	3,970,767
National Archives & Records Admin	691	356	255	80
National Science Foundation	1,847,037	1,732,130	114,907	-
Nuclear Regulatory Commission	229,578	-	229,578	-
Office of Thrift Supervision 4/	3,291	-	3,291	-
Smithsonian Institution	98,180	98,180	-	-
Tennessee Valley Authority	70,030	1,815	25,877	42,338
United States Arms Control and Disarmament Agency	275	-	275	-
United States Information Agency	400	-	400	-

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-6. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	70,427,418	13,207,952	12,475,458	44,744,008
Departments				
Department of Agriculture, total	1,255,697	598,019	613,818	43,860
Agricultural Cooperative Service	3,018	-	3,018	-
Agricultural Marketing Service 1/	3,207	556	2,115	536
Agricultural Research Service	623,451	336,041	249,380	38,030
Animal & Plant Health Inspection Svc	9,184	-	9,184	-
Cooperative State Research Service	373,151	188,525	184,626	-
Economic Research Service	62,479	8,747	53,732	-
Federal Grain Inspection Service	788	-	334	454
Forest Service	163,200	62,100	96,400	4,700
Human Nutrition Information Service	12,654	-	12,654	-
Nat'l Agricultural Statistics Svc	3,014	992	2,022	-
Office of International Cooperation and Development	1,551	1,058	353	140
Department of Commerce, total	539,041	34,101	418,073	86,867
Bureau of the Census	5,806	1,476	2,425	1,905
National Institute of Standards & Technology	186,011	32,625	117,652	35,734
National Oceanic & Atmospheric Administration	337,195	-	290,948	46,247
National Telecommunications & Information Admin	10,029	-	7,048	2,981
Department of Defense, total	38,769,897	1,027,988	2,883,483	34,858,426
Department of the Army	6,457,510	192,500	669,837	5,595,173
Department of the Navy	8,427,041	424,622	514,808	7,487,611
Department of the Air Force	15,115,455	211,984	639,010	14,264,461
Defense agencies	8,480,757	198,882	1,059,828	7,222,047
Test & Eval, Dpty Under Secretary Def	275,032	-	-	275,032
Director, Operational Test & Eval	14,102	-	-	14,102
Department of Education	222,158	6,794	158,189	57,175
Department of Energy	6,498,663	1,730,600	1,211,765	3,556,298
Department of Health and Human Services, total	9,780,472	5,419,080	3,252,143	1,109,249
Administration for Children and Families 2/	153,207	-	8,774	144,433
Agency for Health Care Policy & Research 3/	34,300	-	31,200	3,100
Alcohol, Drug Abuse & Mental Health Administration	1,022,166	456,381	512,739	53,046
Centers for Disease Control	113,300	-	113,300	-
Food & Drug Administration	125,300	-	125,300	-
Health Care Financing Administration	36,000	-	36,000	-
Health Resources and Services Admin	10,898	1,599	9,299	-
National Institutes of Health	8,252,700	4,961,100	2,384,500	907,100
Office of Assistant Secretary for Health	3,870	-	2,300	1,570
Office of the Secretary	5,037	-	5,037	-
Social Security Administration	23,694	-	23,694	-
Department of Housing and Urban Development	36,382	-	13,202	23,180
Department of the Interior, total	561,819	210,340	309,859	41,620
Bureau of Land Management	11,588	3,000	4,851	3,737
Bureau of Mines	82,228	33,726	43,026	5,476
Bureau of Reclamation	11,700	-	10,600	1,100
Geological Survey	339,067	167,914	153,146	18,007
Minerals Management Service	5,714	-	5,714	-
National Park Service	29,000	-	29,000	-
Office of the Secretary	1,100	-	-	1,100
Office of Surface Mining Reclamation and Enforcement	2,922	-	2,922	-
United States Fish and Wildlife Service	78,500	5,700	60,600	12,200
Department of Justice, total	43,011	5,758	12,287	24,966
Drug Enforcement Administration	3,273	-	795	2,478
Federal Bureau of Investigation	10,832	-	-	10,832
Federal Prison System	4,400	-	1,700	2,700
Immigration and Naturalization Service	400	-	400	-
Office of Justice Programs	24,106	5,758	9,392	8,956
Department of Labor, total	67,259	225	29,823	37,211
Bureau of Labor Statistics	7,700	-	7,700	-
Employment Standards Administration	139	-	139	-
Employment and Training Administration	39,131	225	5,384	33,522
Occupational Safety and Health Administration	3,265	-	3,265	-
Office of the Secretary	13,904	-	10,285	3,619
Pension Benefit Guaranty Corporation	520	-	450	70
Pension & Welfare Benefits Admin	2,600	-	2,600	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-6. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of State	8,987	7,784	1,203	-
Department of Transportation, total	434,943	-	135,962	298,981
Coast Guard	28,400	-	7,100	21,300
Federal Aviation Administration	234,080	-	25,793	208,287
Federal Highway Administration	102,629	-	52,020	50,609
Federal Railroad Administration	25,813	-	21,425	4,388
Maritime Administration	2,000	-	2,000	-
National Highway Traffic Safety Administration	23,743	-	23,743	-
Office of the Secretary	5,875	-	837	5,038
Research and Special Programs Administration	3,044	-	3,044	-
Urban Mass Transportation Administration	9,359	-	-	9,359
Department of the Treasury, total	31,912	3,576	18,406	9,930
Bureau of Engraving and Printing	4,741	-	3,306	1,435
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	505	-	505	-
United States Customs Service	8,477	-	650	7,827
United States Mint	311	-	-	311
Department of Veterans Affairs	220,800	15,800	182,700	22,300
Other agencies				
Advisory Commission on Intergovernmental Relations	1,416	-	1,416	-
Agency for International Development	355,716	10,193	288,860	56,663
Consumer Product Safety Commission	1,305	-	1,035	270
Environmental Protection Agency	482,935	114,496	280,942	87,497
Federal Communications Commission	1,414	-	1,414	-
Federal Trade Commission	519	-	519	-
International Trade Commission	11,790	-	11,790	-
Library of Congress	9,567	328	1,314	7,925
National Aeronautics and Space Administration	8,542,994	1,944,350	2,231,487	4,367,157
National Archives & Records Admin	550	150	310	90
National Science Foundation	2,101,632	1,965,308	136,324	-
Nuclear Regulatory Commission	250,938	-	250,938	-
Office of Thrift Supervision 4/	3,494	-	3,494	-
Smithsonian Institution	111,744	111,744	-	-
Tennessee Valley Authority	77,713	1,318	22,052	54,343
United States Arms Control and Disarmament Agency	2,000	-	2,000	-
United States Information Agency	650	-	650	-

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-7. Federal obligations for total research and development, by agency and performer: fiscal year 1990

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	63,667.3	16,002.5	29,378.2	2,237.6	9,142.2	3,466.4	2,249.6	632.3	213.9	344.7
Departments										
Department of Agriculture, total	1,108.4	737.1	6.1	-	348.1	-	9.1	-	2.0	6.0
Agricultural Cooperative Service	2.7	2.5	-	-	.2	-	-	-	-	-
Agricultural Marketing Service 2/	2.7	2.5	-	-	.1	-	.1	-	*	-
Agricultural Research Service	545.5	505.5	-	-	32.7	-	3.5	-	.1	3.8
Animal & Plant Health Inspection Svc	8.0	7.5	-	-	.4	-	.1	-	-	-
Cooperative State Research Service	324.2	14.6	4.0	-	298.9	-	5.3	-	1.4	-
Economic Research Service	50.5	49.2	-	-	1.3	-	-	-	-	-
Federal Grain Inspection Service	.6	.4	-	-	.2	-	*	-	-	-
Forest Service	158.6	145.4	.3	-	12.3	-	*	-	.5	.1
Human Nutrition Information Service	9.0	5.8	1.7	-	1.5	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2.8	2.5	*	-	.2	-	-	-	-	-
Off of Internat'l Cooperation & Development	3.6	1.2	-	-	.2	-	-	-	-	2.2
Department of Commerce, total	438.2	336.3	44.3	*	50.4	.1	.5	*	6.4	.1
Bureau of the Census	6.9	4.3	-	-	2.6	-	-	-	-	-
Economic Development Administration	1.2	.8	.2	-	.1	-	.1	-	-	-
Nat'l Institute of Standards & Tech	122.3	113.8	1.3	-	6.8	.1	.3	-	-	*
Nat'l Oceanic & Atmospheric Admin	300.1	209.8	42.8	*	40.9	-	.2	*	6.4	*
Nat'l Telecomm & Information Admin	7.7	7.7	-	-	-	-	-	-	-	-
Department of Defense, research 3/	3,529.2	1,209.1	1,294.6	31.1	795.1	76.9	85.1	17.4	-	20.0
Department of Defense, development 3/	33,738.9	8,429.9	23,148.8	387.8	418.3	581.6	203.4	398.7	*	170.4
Department of the Army R&D	5,684.1	2,036.9	3,328.1	11.5	117.2	118.3	48.4	12.0	-	11.6
Department of the Navy R&D	9,586.2	2,995.7	5,841.2	132.0	405.5	9.0	70.9	53.7	-	78.2
Department of the Air Force R&D	14,831.4	2,870.0	11,524.4	9.5	212.9	34.1	21.4	155.0	-	4.1
Defense agencies R&D	6,945.2	1,598.8	3,700.0	265.9	477.1	497.1	147.8	180.4	-	78.0
Test and Evaluation, Deputy Under Secretary Defense R&D	188.7	115.1	48.3	-	.6	-	-	6.2	*	18.5
Director, Operational Test and Evaluation R&D	32.6	22.3	1.4	-	-	-	-	8.8	-	-
Department of Education	169.9	17.7	16.3	-	92.2	-	41.3	-	2.3	.2
Department of Energy	5,630.6	307.3	776.8	1,718.2	500.4	2,020.5	135.2	156.8	10.1	5.3
Dept of Hlth & Human Services, total	8,405.6	1,661.7	358.1	16.4	4,874.3	28.4	1,302.4	18.4	101.8	44.1
Administration for Children and Families 4/	95.4	1.6	2.3	-	16.9	-	60.2	-	14.3	-
Agency for Health Care Policy & Research 5/	49.7	14.0	8.2	-	23.5	-	3.7	-	.1	.3
Alcohol, Drug Abuse & Mental Hlth Admin	842.7	230.0	9.2	-	474.1	.2	95.2	-	30.8	3.1
Centers for Disease Control	95.6	38.5	5.2	-	29.6	-	22.1	-	.2	-
Food & Drug Administration	99.0	92.1	-	-	5.9	-	1.0	-	-	-
Health Care Financing Admin	49.1	.3	13.3	-	8.4	-	25.3	-	1.7	.1
Health Resources and Services Administration	11.9	3.0	-	-	6.3	-	2.2	-	.4	-
National Institutes of Health	7,136.5	1,270.2	317.3	16.4	4,304.9	28.2	1,086.6	18.4	53.9	40.4
Office of Assistant Secretary for Health	6.9	6.0	-	-	-	-	1.0	-	-	-
Office of the Secretary	5.0	1.4	2.2	-	.5	-	.8	-	-	*
Social Security Administration	13.9	4.6	.3	-	4.1	-	4.5	-	.4	.1
Dept of Housing & Urban Development	19.3	14.2	4.0	-	.1	-	1.0	-	-	-
Department of the Interior, total	508.5	423.7	27.6	3.7	49.9	-	.3	-	2.8	.5
Bureau of Land Management	2.8	2.5	-	-	.4	-	-	-	-	-
Bureau of Mines	99.3	68.1	15.7	3.6	11.7	-	-	-	.3	-
Bureau of Reclamation	5.8	5.4	-	-	.3	-	.1	-	-	-
Geological Survey	308.4	289.2	11.7	-	24.9	-	-	-	2.5	*
Minerals Management Service	1.9	1.0	*	.2	.1	-	*	-	-	.5
National Park Service	20.1	14.3	-	-	5.6	-	.1	-	-	-
Office of the Secretary	.2	*	.2	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	.7	*	-	-	.7	-	-	-	-	-
US Fish & Wildlife Service	69.4	63.2	-	-	6.2	-	-	-	-	-
Department of Justice, total	40.5	12.9	5.1	.2	6.7	.2	10.2	-	5.2	-
Drug Enforcement Administration	2.4	.3	1.6	.2	.1	.2	-	-	-	-
Federal Bureau of Investigation	8.2	8.2	-	-	-	-	-	-	-	-
Federal Prison System	4.5	1.8	-	-	.2	-	.2	-	2.3	-
Immigration & Naturalization Svc	.4	*	.4	-	-	-	-	-	-	-
Office of Justice Programs	25.0	2.5	3.1	-	6.4	-	10.0	-	2.9	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-7. Federal obligations for total research and development, by agency and performer: fiscal year 1990

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	73.0	8.0	8.6	-	5.9	-	7.0	-	43.5	*
Bureau of Labor Statistics	7.3	2.5	-	-	4.8	-	-	-	-	-
Employment Standards Administration	.1	.1	-	-	-	-	-	-	-	-
Employment and Training Admin	53.4	1.3	2.8	-	.8	-	5.8	-	42.7	*
Occupational Safety & Health Admin	2.5	.4	2.1	-	-	-	-	-	-	-
Office of the Secretary	7.1	2.9	2.0	-	.3	-	1.2	-	.8	-
Pension Benefit Guaranty Corporation	.5	.4	.1	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2.1	0.5	1.6	-	-	-	-	-	-	-
Department of State	4.7	.2	.1	-	1.2	-	3.1	*	-	*
Department of Transportation, total	365.6	199.2	98.3	-	28.6	-	5.0	17.0	16.9	0.7
Coast Guard	20.2	14.2	6.0	-	-	-	-	-	-	-
Federal Aviation Administration	216.1	163.6	29.1	-	6.3	-	-	17.0	-	-
Federal Highway Administration	90.6	1.8	53.6	-	17.6	-	-	-	16.9	.6
Federal Railroad Administration	10.2	5.7	1.2	-	.2	-	3.1	-	-	-
Maritime Administration	.9	.3	.6	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	16.9	7.2	4.1	-	3.7	-	1.9	-	-	*
Office of the Secretary	6.8	3.6	3.0	-	.2	-	-	-	-	-
Research & Special Programs Admin	2.4	1.7	.7	-	-	-	-	-	-	-
Urban Mass Transportation Admin	1.6	1.0	-	-	.6	-	-	-	-	-
Department of the Treasury, total	25.6	13.2	12.2	-	-	0.2	-	-	-	-
Bureau of Engraving and Printing	2.1	1.9	-	-	-	.2	-	-	-	-
Internal Revenue Service	16.8	10.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.2	.2	-	-	-	-	-	-	-
United States Customs Service	6.2	.2	6.0	-	-	-	-	-	-	-
United States Mint	.1	*	*	-	-	-	-	-	-	-
Department of Veterans Affairs	237.7	235.4	-	-	2.3	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov't'l Relations	1.5	1.5	-	-	-	-	-	-	-	-
Agency for Internat'l Development	334.6	23.1	26.5	-	79.4	-	128.9	-	-	76.7
Appalachian Regional Commission	.4	*	.1	-	.1	-	*	-	.1	-
Consumer Product Safety Commission	1.1	1.0	*	-	.1	-	-	-	-	-
Environmental Protection Agency	419.7	118.6	177.1	-	87.5	-	22.1	-	14.4	-
Federal Communications Commission	1.3	1.3	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
General Services Administration	.7	.7	-	-	-	-	-	-	-	-
International Trade Commission	9.1	9.1	-	-	-	-	-	-	-	-
Library of Congress	8.4	8.4	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	6,533.2	1,968.4	3,284.8	-	470.7	619.3	168.2	2.4	5.2	14.3
National Archives & Records Admin	.4	.3	*	-	-	*	-	-	-	*
National Science Foundation	1,689.5	86.3	72.1	0.4	1,320.9	106.1	98.0	.3	3.2	2.3
Nuclear Regulatory Commission	217.5	49.0	16.4	79.7	9.3	33.1	4.7	21.2	-	4.1
Office of Thrift Supervision 6/	4.1	4.1	-	-	-	-	-	-	-	-
Smithsonian Institution	84.0	84.0	-	-	-	-	-	-	-	-
Tennessee Valley Authority	64.9	39.9	-	-	.7	-	24.3	-	-	-
US Arms Control & Disarmament Agency	.2	*	.2	-	-	*	-	-	-	-
United States Information Agency	.5	.5	-	-	-	-	-	-	-	-

* Indicates amount less than $50,000

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In this Volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1991 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	63,217.9	16,469.2	26,970.2	2,267.2	10,067.8	3,694.7	2,549.7	675.9	241.1	282.1
Departments										
Department of Agriculture, total	1,218.6	788.2	5.8	*	408.4	-	9.6	-	2.1	4.6
Agricultural Cooperative Service	2.9	2.6	-	-	.2	-	-	-	-	-
Agricultural Marketing Service 2/	3.0	3.0	-	-	-	-	-	-	-	-
Agricultural Research Service	589.1	540.7	-	-	41.0	-	3.8	-	.1	3.5
Animal & Plant Health Inspection Svc	8.7	8.2	-	-	.4	-	.1	-	-	-
Cooperative State Research Service	376.7	16.7	4.7	-	348.2	-	5.7	-	1.4	-
Economic Research Service	54.4	53.2	-	-	1.2	-	-	-	-	-
Federal Grain Inspection Service	.8	.5	-	-	.3	-	-	-	-	-
Forest Service	167.6	150.9	.4	-	15.6	-	.1	-	.6	.1
Human Nutrition Information Service	10.0	8.5	.6	-	.9	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2.9	2.6	-	*	.3	-	-	-	-	-
Off of Internat'l Cooperation & Development	2.5	1.2	-	-	.2	-	-	-	-	1.1
Department of Commerce, total	525.9	383.9	77.7	-	56.3	.1	.6	-	7.1	.1
Bureau of the Census	5.5	4.6	-	-	.9	-	-	-	-	-
Economic Development Administration	1.2	.8	-	-	.2	-	.2	-	-	-
Nat'l Institute of Standards & Tech	175.7	124.2	45.6	-	5.5	.1	.3	-	-	*
Nat'l Oceanic & Atmospheric Admin	335.5	246.4	32.1	-	49.7	-	.2	-	7.1	.1
Nat'l Telecomm & Information Admin	8.0	8.0	-	-	-	-	-	-	-	-
Department of Defense, research 3/	3,805.8	1,202.1	1,351.3	32.0	1,021.3	74.8	89.8	15.3	-	19.4
Department of Defense, development 3/	30,160.4	8,120.2	19,817.1	443.1	389.9	675.3	186.5	414.7	-	113.5
Department of the Army R&D	5,557.2	2,108.3	3,158.6	3.7	111.4	85.6	49.1	30.9	-	9.6
Department of the Navy R&D	8,849.6	2,852.8	5,288.3	145.9	394.9	7.4	48.2	52.9	-	59.2
Department of the Air Force R&D	11,900.1	2,311.3	9,213.5	7.6	193.8	27.1	19.6	123.5	-	3.7
Defense agencies R&D	7,446.5	1,937.6	3,450.3	318.0	710.6	626.2	159.4	204.3	-	40.1
Test and Evaluation, Deputy Under Secretary Defense R&D	200.1	111.6	57.7	-	.5	3.8	-	6.3	-	20.3
Director, Operational Test and Evaluation R&D	12.8	.7	-	-	-	-	-	12.1	-	-
Department of Education	207.3	19.5	17.9	-	96.8	12.4	58.2	-	2.4	-
Department of Energy	6,158.7	382.7	1,031.1	1,687.8	576.8	2,090.6	184.8	184.7	11.8	8.2
Dept of Hlth & Human Services, total	9,246.3	1,849.7	403.4	17.9	5,278.1	31.2	1,465.9	19.8	131.1	49.2
Administration for Children and Families 4/	148.1	1.8	2.4	-	20.9	-	94.0	-	29.0	-
Agency for Health Care Policy & Research 5/	95.8	23.1	17.0	-	47.7	-	7.5	-	.1	.5
Alcohol, Drug Abuse & Mental Hlth Admin	957.2	252.8	11.0	-	546.9	.2	106.8	-	35.5	4.0
Centers for Disease Control	109.6	50.6	6.0	-	29.6	-	23.2	-	.2	-
Food & Drug Administration	110.0	102.8	-	-	6.6	-	.6	-	-	-
Health Care Financing Admin	69.8	.3	18.3	-	10.4	-	34.1	-	6.5	.2
Health Resources and Services Administration	10.7	3.0	-	-	5.7	-	2.1	-	-	-
National Institutes of Health	7,705.1	1,392.2	346.7	17.9	4,602.5	31.0	1,191.5	19.8	59.1	44.3
Office of Assistant Secretary for Health	10.1	9.8	-	-	-	-	.4	-	-	-
Office of the Secretary	8.9	1.5	1.5	-	4.0	-	1.3	-	.5	.1
Social Security Administration	20.8	11.9	.3	-	3.9	-	4.5	-	.2	*
Dept of Housing & Urban Development	31.5	15.6	13.9	-	.2	-	1.7	-	-	-
Department of the Interior, total	588.8	481.6	41.6	3.7	55.9	-	.2	-	5.2	.7
Bureau of Land Management	5.5	2.2	-	-	3.3	-	-	-	-	-
Bureau of Mines	111.7	71.7	24.2	3.6	10.6	-	-	-	1.5	-
Bureau of Reclamation	8.6	8.6	-	-	-	-	-	-	-	-
Geological Survey	353.5	306.2	16.2	-	27.4	-	-	-	3.7	-
Minerals Management Service	2.6	1.1	.5	.1	.3	-	-	-	-	.7
National Park Service	25.2	18.3	-	-	6.7	-	.2	-	-	-
Office of the Secretary	.7	*	.7	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	1.0	*	-	-	1.0	-	-	-	-	-
US Fish & Wildlife Service	80.1	73.5	-	-	6.6	-	-	-	-	-
Department of Justice, total	46.1	14.2	8.2	.3	6.0	-	13.6	-	3.9	-
Drug Enforcement Administration	2.1	.3	1.5	.3	-	-	-	-	-	-
Federal Bureau of Investigation	10.7	10.7	-	-	-	-	-	-	-	-
Federal Prison System	4.6	2.0	-	-	.2	-	.2	-	2.3	-
Immigration & Naturalization Svc	.4	*	.4	-	-	-	-	-	-	-
Office of Justice Programs	28.3	1.2	6.4	-	5.8	-	13.4	-	1.6	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1991 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	75.4	7.2	11.8	-	7.0	-	6.8	-	42.6	*
Bureau of Labor Statistics	7.4	2.5	-	-	4.9	-	-	-	-	-
Employment Standards Administration	.2	.2	-	-	-	-	-	-	-	-
Employment and Training Admin	53.0	.6	3.8	-	1.7	-	5.0	-	42.0	-
Occupational Safety & Health Admin	3.3	.4	2.9	-	-	-	-	-	-	-
Office of the Secretary	8.5	2.6	3.1	-	.5	-	1.8	-	.6	*
Pension Benefit Guaranty Corporation	.5	.4	.1	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2.5	0.5	2.0	-	-	-	-	-	-	-
Department of State	8.9	.3	.1	-	1.4	-	7.2	-	-	*
Department of Transportation, total	414.3	215.5	128.1	0.2	31.5	0.6	11.7	13.5	11.2	1.9
Coast Guard	24.6	17.4	7.3	-	-	-	-	-	-	-
Federal Aviation Administration	230.3	169.0	41.3	-	5.9	.6	-	13.5	-	-
Federal Highway Administration	105.6	2.3	64.9	.2	20.9	-	5.3	-	10.7	1.2
Federal Railroad Administration	23.2	11.0	6.9	-	.8	-	4.1	-	.5	-
Maritime Administration	1.0	.3	.5	-	.1	-	.1	-	-	-
Nat'l Highway Traffic Safety Admin	21.4	10.0	5.4	-	3.0	-	2.2	-	-	.7
Office of the Secretary	4.3	3.0	1.0	-	.2	-	-	.1	-	-
Research & Special Programs Admin	2.3	1.6	.7	-	-	-	-	-	-	-
Urban Mass Transportation Admin	1.6	1.0	-	-	.6	-	-	-	-	-
Department of the Treasury, total	29.3	17.1	12.0	-	-	.2	-	-	-	-
Bureau of Engraving and Printing	4.8	4.5	-	-	-	.2	-	-	-	-
Internal Revenue Service	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.2	.3	-	-	-	-	-	-	-
United States Customs Service	5.2	.3	4.9	-	-	-	-	-	-	-
United States Mint	.9	.1	.9	-	-	-	-	-	-	-
Department of Veterans Affairs	243.2	240.9	-	-	2.3	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1.5	1.5	-	-	-	-	-	-	-	-
Agency for Internat'l Development	322.4	18.5	24.7	-	63.6	-	151.6	-	-	64.0
Appalachian Regional Commission	.3	.1	*	-	-	-	-	-	.2	-
Consumer Product Safety Commission	1.5	1.4	.1	-	-	-	-	-	-	-
Environmental Protection Agency	425.4	130.0	161.6	-	87.5	-	31.5	-	14.9	-
Federal Communications Commission	1.6	1.6	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
International Trade Commission	10.9	10.9	-	-	-	-	-	-	-	-
Library of Congress	9.2	9.2	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	7,434.6	2,271.3	3,751.8	-	533.0	665.3	191.3	2.4	5.2	14.3
National Archives & Records Admin	.7	.6	-	-	-	.1	-	-	-	-
National Science Foundation	1,847.0	86.7	91.0	.4	1,440.2	110.5	112.2	.1	3.5	2.5
Nuclear Regulatory Commission	229.6	50.9	20.9	81.8	10.9	33.5	2.5	25.4	-	3.6
Office of Thrift Supervision 6/	3.3	3.3	-	-	-	-	-	-	-	-
Smithsonian Institution	98.2	98.2	-	-	-	-	-	-	-	-
Tennessee Valley Authority	70.0	45.4	-	-	.7	-	24.0	-	-	-
US Arms Control & Disarmament Agency	.3	.1	.1	-	*	*	-	-	-	-
United States Information Agency	.4	.4	-	-	-	-	-	-	-	-

* Indicates amount less than $50,000

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In this Volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-9. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	70,427.4	17,645.4	31,929.6	2,376.9	10,475.4	4,126.0	2,618.5	713.8	249.6	292.2
Departments										
Department of Agriculture, total	1,255.7	826.4	9.3	*	409.5	-	5.1	-	1.8	3.6
Agricultural Cooperative Service	3.0	2.8	-	-	.2	-	-	-	-	-
Agricultural Marketing Service 2/	3.2	3.2	-	-	-	-	-	-	-	-
Agricultural Research Service	623.5	574.9	-	-	41.0	-	4.0	-	.1	3.5
Animal & Plant Health Inspection Svc	9.2	8.6	-	-	.4	-	.1	-	-	-
Cooperative State Research Service	373.2	17.3	4.7	-	349.0	-	1.0	-	1.1	-
Economic Research Service	62.5	61.3	-	-	1.2	-	-	-	-	-
Federal Grain Inspection Service	.8	.5	-	-	.3	-	-	-	-	-
Forest Service	163.2	147.1	.4	-	15.1	-	.1	-	.5	.1
Human Nutrition Information Service	12.7	6.8	4.3	-	1.6	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3.0	2.7	-	*	.3	-	-	-	-	-
Off of Internat'l Cooperation & Development	1.6	1.3	-	-	.2	-	-	-	-	-
Department of Commerce, total	539.0	430.5	68.6	-	39.0	.1	.4	-	.3	.1
Bureau of the Census	5.8	4.6	-	-	1.2	-	-	-	-	-
Nat'l Institute of Standards & Tech	186.0	144.1	37.5	-	4.0	.1	.3	-	-	*
Nat'l Oceanic & Atmospheric Admin	337.2	271.8	31.1	-	33.8	-	.1	-	.3	.1
Nat'l Telecomm & Information Admin	10.0	10.0	-	-	-	-	-	-	-	-
Department of Defense, research 3/	3,911.5	1,365.1	1,425.9	27.8	920.8	48.3	95.4	4.3	-	23.8
Department of Defense, development 3/	34,858.4	8,524.5	24,042.1	457.2	365.8	750.7	198.9	418.4	.5	100.3
Department of the Army R&D	6,457.5	2,169.2	3,964.3	2.7	111.3	153.0	18.4	28.1	-	10.6
Department of the Navy R&D	8,427.0	2,805.2	4,909.5	147.5	412.8	6.7	50.0	51.3	-	43.9
Department of the Air Force R&D	15,115.5	2,930.4	11,726.7	9.6	228.9	34.6	23.4	157.4	-	4.4
Defense agencies R&D	8,480.8	1,797.8	4,796.3	325.2	532.6	604.6	202.5	156.5	-	65.2
Test and Evaluation, Deputy Under Secretary Defense R&D	275.0	186.4	71.2	-	1.0	-	-	15.9	.5	-
Director, Operational Test and Evaluation R&D	14.1	.6	-	-	-	-	-	13.5	-	-
Department of Education	222.2	22.1	16.6	-	115.4	-	62.4	-	5.6	-
Department of Energy	6,498.7	448.8	1,156.4	1,774.9	491.4	2,252.2	127.1	222.2	8.8	16.9
Dept of Hlth & Human Services, total	9,780.5	1,965.7	414.7	19.1	5,616.2	33.4	1,512.2	21.0	146.4	51.9
Administration for Children and Families 4/	153.2	1.9	2.5	-	24.2	-	81.6	-	43.1	-
Agency for Health Care Policy & Research 5/	34.3	17.8	7.3	-	7.9	-	1.2	-	*	.1
Alcohol, Drug Abuse & Mental Hlth Admin	1,022.2	267.3	11.9	-	585.8	.3	115.0	-	37.5	4.3
Centers for Disease Control	113.3	52.8	6.3	-	29.6	-	24.3	-	.2	-
Food & Drug Administration	125.3	116.5	-	-	7.5	-	1.3	-	-	-
Health Care Financing Admin	36.0	.3	15.2	-	9.6	-	8.7	-	2.0	.1
Health Resources and Services Administration	10.9	3.3	-	-	5.5	-	2.1	-	-	-
National Institutes of Health	8,252.7	1,485.5	369.6	19.1	4,942.4	33.1	1,271.7	21.0	63.1	47.3
Office of Assistant Secretary for Health	3.9	2.5	-	-	-	-	1.4	-	-	-
Office of the Secretary	5.0	1.5	1.5	-	1.0	-	1.0	-	-	-
Social Security Administration	23.7	16.3	.4	-	2.6	-	3.8	-	.6	.1
Dept of Housing & Urban Development	36.4	13.9	18.1	-	.2	-	4.2	-	-	-
Department of the Interior, total	561.8	478.7	25.8	3.3	49.8	-	1.0	-	1.7	1.5
Bureau of Land Management	11.6	4.2	-	-	7.4	-	-	-	-	-
Bureau of Mines	82.2	66.8	7.2	3.0	5.2	-	-	-	-	-
Bureau of Reclamation	11.7	10.7	-	-	.3	-	.7	-	-	-
Geological Survey	339.1	302.7	15.8	-	18.9	-	-	-	1.7	-
Minerals Management Service	5.7	1.8	1.2	.3	.9	-	-	-	-	1.5
National Park Service	29.0	21.3	-	-	7.5	-	.3	-	-	-
Office of the Secretary	1.1	.1	1.0	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	2.9	*	.6	-	2.3	-	-	-	-	-
US Fish & Wildlife Service	78.5	71.3	-	-	7.2	-	-	-	-	-
Department of Justice, total	43.0	16.0	7.3	-	5.5	.5	9.1	.3	4.4	-
Drug Enforcement Administration	3.3	.4	1.9	-	-	.5	.2	.3	-	-
Federal Bureau of Investigation	10.8	10.8	-	-	-	-	-	-	-	-
Federal Prison System	4.4	1.9	-	-	.2	-	.1	-	2.3	-
Immigration & Naturalization Svc	.4	*	.4	-	-	-	-	-	-	-
Office of Justice Programs	24.1	2.9	5.1	-	5.3	-	8.7	-	2.1	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-9. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	67.3	7.8	11.9	6.9	2.5	-	4.7	-	33.6	-
Bureau of Labor Statistics	7.7	2.9	-	4.8	-	-	-	-	-	-
Employment Standards Administration	.1	.1	-	-	-	-	-	-	-	-
Employment and Training Admin	39.1	.6	1.9	-	.7	-	2.4	-	33.5	-
Occupational Safety & Health Admin	3.3	.4	2.9	-	-	-	-	-	-	-
Office of the Secretary	13.9	2.7	7.2	-	1.7	-	2.2	-	.1	-
Pension Benefit Guaranty Corporation	.5	.5	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2.6	0.5	-	2.1	-	-	-	-	-	-
Department of State	9.0	.3	0.1	-	7.8	-	0.8	*	-	*
Department of Transportation, total	434.9	239.4	122.1	.1	26.8	-	12.0	14.3	18.3	1.9
Coast Guard	28.4	20.0	8.4	-	-	-	-	-	-	-
Federal Aviation Administration	234.1	183.8	33.2	-	2.8	-	-	14.3	-	-
Federal Highway Administration	102.6	4.2	64.8	.1	15.9	-	4.4	-	12.3	.9
Federal Railroad Administration	25.8	11.3	7.2	-	.7	-	4.7	-	2.0	-
Maritime Administration	2.0	.5	1.1	-	.1	-	.3	-	-	-
Nat'l Highway Traffic Safety Admin	23.7	11.1	5.9	-	3.0	-	2.7	-	-	1.0
Office of the Secretary	5.9	4.4	1.5	-	-	-	-	-	-	-
Research & Special Programs Admin	3.0	2.8	-	-	.2	-	-	-	-	-
Urban Mass Transportation Admin	9.4	1.2	-	-	4.2	-	-	-	4.0	-
Department of the Treasury, total	31.9	17.1	14.6	-	-	0.2	-	-	-	-
Bureau of Engraving and Printing	4.7	4.5	-	-	-	.2	-	-	-	-
Internal Revenue Service	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.3	.3	-	-	-	-	-	-	-
United States Customs Service	8.5	.3	8.2	-	-	-	-	-	-	-
United States Mint	.3	.1	.2	-	-	-	-	-	-	-
Department of Veterans Affairs	220.8	218.5	-	-	2.3	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1.4	1.4	-	-	-	-	-	-	-	-
Agency for Internat'l Development	355.7	14.1	54.3	-	48.4	-	168.3	-	-	70.7
Consumer Product Safety Commission	1.3	1.1	.2	-	-	-	-	-	-	-
Environmental Protection Agency	482.9	104.0	202.8	-	121.2	-	35.8	-	19.1	-
Federal Communications Commission	1.4	1.4	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
International Trade Commission	11.8	11.8	-	-	-	-	-	-	-	-
Library of Congress	9.6	9.6	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	8,543.0	2,612.7	4,204.8	-	600.0	883.8	219.8	2.4	5.2	14.3
National Archives & Records Admin	.6	.3	-	-	-	.3	-	-	-	-
National Science Foundation	2,101.6	88.5	112.4	.6	1,638.1	122.2	133.0	.1	4.0	2.8
Nuclear Regulatory Commission	250.9	56.3	20.7	87.0	13.8	34.2	4.0	30.7	-	4.3
Office of Thrift Supervision 6/	3.5	3.5	-	-	-	-	-	-	-	-
Smithsonian Institution	111.7	111.7	-	-	-	-	-	-	-	-
Tennessee Valley Authority	77.7	52.4	-	-	.9	-	24.4	-	-	-
US Arms Control & Disarmament Agency	2.0	.7	.9	.1	*	.2	.1	.1	-	-
United States Information Agency	.7	.7	-	-	-	-	-	-	-	-

* Indicates amount less than $50,000

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In this Volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-10. Federal obligations for research, development, and R&D plant to federally funded research and development centers (FFRDCs), by agency: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts
Total, all agencies	6,336,241	2,237,605	3,466,376	632,260	758,185	231,009	495,791	31,385
Department of Commerce, total	150	25	100	25	65	-	65	-
Nat'l Institute of Standards & Tech	100	-	100	-	65	-	65	-
Nat'l Oceanic & Atmospheric Admin	50	25	-	25	-	-	-	-
Department of Defense, total	1,493,509	418,931	658,452	416,126	65,555	21,558	23,647	20,350
Department of the Army	141,835	11,541	118,308	11,986	-	-	-	-
Department of the Navy	194,698	131,990	9,015	53,693	-	-	-	-
Department of the Air Force	198,573	9,488	34,075	155,010	51,989	9,488	22,151	20,350
Test and Evaluation, Deputy Under Secretary Defense	6,178	-	-	6,178	-	-	-	-
Director, Operational Test and Evaluation	8,840	-	-	8,840	-	-	-	-
Department of Energy	3,895,442	1,718,194	2,020,493	156,755	669,269	209,451	448,783	11,035
Dept of Hlth & Human Services, total	63,308	16,435	28,449	18,424	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	202	-	202	-	-	-	-	-
National Institutes of Health	63,106	16,435	28,247	18,424	-	-	-	-
Department of the Interior, total	3,741	3,741	-	-	-	-	-	-
Bureau of Mines	3,586	3,586	-	-	-	-	-	-
Minerals Management Service	155	155	-	-	-	-	-	-
Department of Justice, total	400	210	190	-	-	-	-	-
Drug Enforcement Administration	400	210	190	-	-	-	-	-
Department of State	1	-	-	1	-	-	-	-
Department of Transportation, total	17,029	-	-	17,029	-	-	-	-
Federal Aviation Administration	17,029	-	-	17,029	-	-	-	-
Department of the Treasury, total	227	-	227	-	-	-	-	-
Bureau of Engraving and Printing	227	-	227	-	-	-	-	-
Other agencies								
National Aeronautics & Space Admin	621,659	-	619,257	2,402	12,873	-	12,873	-
National Archives & Records Admin	20	-	20	-	-	-	-	-
National Science Foundation	106,708	363	106,087	258	10,423	-	10,423	-
Nuclear Regulatory Commission	134,022	79,706	33,076	21,240	-	-	-	-
US Arms Control & Disarmament Agency	25	-	25	-	-	-	-	-

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-11. Federal obligations for research, development, and R&D plant to federally funded research and development centers (FFRDCs), by agency: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts
Total, all agencies	6,637,757	2,267,153	3,694,708	675,896	880,153	194,276	645,929	39,948
Departments								
Department of Agriculture, total	30	30	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	30	30	-	-	-	-	-	-
Department of Commerce, total	100	-	100	-	65	-	65	-
Nat'l Institute of Standards & Tech	100	-	100	-	65	-	65	-
Department of Defense, total	1,655,151	475,070	750,090	429,991	54,040	7,332	24,344	22,364
Department of the Army	120,144	3,663	85,590	30,891	-	-	-	-
Department of the Navy	206,211	145,905	7,372	52,934	-	-	-	-
Department of the Air Force	158,161	7,552	27,123	123,486	51,283	4,575	24,344	22,364
Test and Evaluation, Deputy Under Secretary Defense	10,070	-	3,770	6,300	-	-	-	-
Director, Operational Test and Evaluation	12,050	-	-	12,050	-	-	-	-
Department of Education	12,362	-	12,362	-	-	-	-	-
Department of Energy	3,963,191	1,687,811	2,090,644	184,736	723,198	186,944	518,670	17,584
Dept of Hlth & Human Services, total	68,919	17,895	31,239	19,785	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	242	-	242	-	-	-	-	-
National Institutes of Health	68,677	17,895	30,997	19,785	-	-	-	-
Department of the Interior, total	3,671	3,671	-	-	-	-	-	-
Bureau of Mines	3,620	3,620	-	-	-	-	-	-
Minerals Management Service	51	51	-	-	-	-	-	-
Department of Justice, total	310	310	-	-	-	-	-	-
Drug Enforcement Administration	310	310	-	-	-	-	-	-
Department of Transportation, total	14,279	158	600	13,521	-	-	-	-
Federal Aviation Administration	14,071	-	600	13,471	-	-	-	-
Federal Highway Administration	158	158	-	-	-	-	-	-
Office of the Secretary	50	-	-	50	-	-	-	-
Department of the Treasury, total	229	-	229	-	-	-	-	-
Bureau of Engraving and Printing	229	-	229	-	-	-	-	-
Other agencies								
Agency for Internat'l Development	-	-	-	-	2,545	-	2,545	-
National Aeronautics & Space Admin	667,683	-	665,281	2,402	93,970	-	93,970	-
National Archives & Records Admin	125	-	125	-	-	-	-	-
National Science Foundation	110,972	400	110,487	85	6,335	-	6,335	-
Nuclear Regulatory Commission	140,710	81,808	33,526	25,376	-	-	-	-
US Arms Control & Disarmament Agency	25	-	25	-	-	-	-	-

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-12. Federal obligations for research, development, and R&D plant to federally funded research and development centers (FFRDCs), by agency: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Research and development				R&D plant			
	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts	Total, all FFRDCs	FFRDCs admin by industrial firms	FFRDCs admin by univ & col	FFRDCs admin by other nonprofit insts
Total, all agencies	7,216,707	2,376,869	4,126,049	713,789	916,211	195,490	678,559	42,162
Departments								
Department of Agriculture, total	30	30	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	30	30	-	-	-	-	-	-
Department of Commerce, total	100	-	100	-	65	-	65	-
Nat'l Institute of Standards & Tech	100	-	100	-	65	-	65	-
Department of Defense, total	1,706,646	485,013	798,979	422,654	37,256	4,394	17,127	15,735
Department of the Army	183,828	2,662	153,043	28,123	-	-	-	-
Department of the Navy	205,537	147,540	6,735	51,262	-	-	-	-
Department of the Air Force	201,575	9,629	34,583	157,363	36,762	3,900	17,127	15,735
Test and Evaluation, Deputy Under Secretary Defense	15,915	-	-	15,915	-	-	-	-
Director, Operational Test and Evaluation	13,500	-	-	13,500	-	-	-	-
Department of Energy	4,249,244	1,774,860	2,252,156	222,228	808,245	191,096	590,722	26,427
Dept of Hlth & Human Services, total	73,413	19,067	33,376	20,970	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	261	-	261	-	-	-	-	-
National Institutes of Health	73,152	19,067	33,115	20,970	-	-	-	-
Department of the Interior, total	3,300	3,300	-	-	-	-	-	-
Bureau of Mines	3,000	3,000	-	-	-	-	-	-
Minerals Management Service	300	300	-	-	-	-	-	-
Department of Justice, total	800	-	500	300	-	-	-	-
Drug Enforcement Administration	800	-	500	300	-	-	-	-
Department of Labor, total	6,852	6,852	-	-	-	-	-	-
Bureau of Labor Statistics	4,800	4,800	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,052	2,052	-	-	-	-	-	-
Department of State	1	-	-	1	-	-	-	-
Department of Transportation, total	14,471	122	-	14,349	-	-	-	-
Federal Aviation Administration	14,349	-	-	14,349	-	-	-	-
Federal Highway Administration	122	122	-	-	-	-	-	-
Department of the Treasury, total	229	-	229	-	-	-	-	-
Bureau of Engraving and Printing	229	-	229	-	-	-	-	-
Other agencies								
Agency for Internat'l Development	-	-	-	-	1,935	-	1,935	-
National Aeronautics & Space Admin	886,230	-	883,828	2,402	44,138	-	44,138	-
National Archives & Records Admin	250	-	250	-	-	-	-	-
National Science Foundation	122,902	565	122,237	100	24,572	-	24,572	-
Nuclear Regulatory Commission	151,914	86,960	34,244	30,710	-	-	-	-
US Arms Control & Disarmament Agency	325	100	150	75	-	-	-	-

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-13. Federal obligations for research and development to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1990

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aeronautics & Space Admin	National Science Foundation	Other
Total, all FFRDCs	6,336,241	150	1,493,509	3,895,442	63,308	621,659	106,708	155,465
FFRDCs admin by industrial firms	2,237,605	25	418,931	1,718,194	16,435	-	363	83,657
Bettis Atomic Power Lab	331,506	-	94,616	236,890	-	-	-	-
Energy Tech Engineering Ctr	9,364	-	804	8,560	-	-	-	-
Frederick Cancer R&D Center	14,905	-	-	-	14,905	-	-	-
Hanford Engineering Devt Lab	98,083	25	855	97,133	-	-	-	70
Idaho Nat'l Engineering Lab	187,583	-	488	154,761	-	-	-	32,334
Knolls Atomic Power Lab	290,513	-	31,642	258,871	-	-	-	-
Oak Ridge National Lab	434,507	-	171,744	236,148	1,530	-	363	24,722
Sandia National Laboratory	718,008	-	118,782	572,695	-	-	-	26,531
Savannah River Laboratory	153,136	-	-	153,136	-	-	-	-
FFRDCs admin by univs & colleges	3,466,376	100	658,452	2,020,493	28,449	619,257	106,087	33,538
Ames Laboratory	19,527	-	190	19,337	-	-	-	-
Argonne National Laboratory	252,178	-	11,203	232,971	1,400	50	535	6,019
Brookhaven National Lab	213,342	100	8,965	177,337	5,664	-	576	20,700
Continuous Electron Beam Accel Facil	17,479	-	275	17,204	-	-	-	-
Lawrence Berkeley Lab	240,242	-	3,432	224,134	12,267	309	100	-
Lawrence Livermore Nat'l Lab	654,155	-	168,169	480,470	1,946	1,036	-	2,534
Fermi National Scientific Laboratory	157,947	-	-	157,892	-	-	55	-
Inst. for Advanced Technology	1,579	-	1,579	-	-	-	-	-
Jet Propulsion Laboratory	698,709	-	82,407	-	220	616,062	-	20
Lincoln Laboratory	210,322	-	210,322	-	-	-	-	-
Los Alamos National Lab	628,928	-	137,863	482,539	4,933	137	18	3,438
Nat'l Astronomy & Ionosphere Ctr	7,337	-	-	-	-	-	7,337	-
Nat'l Center for Atmospheric Rsch	46,200	-	-	-	-	1,663	44,537	-
Nat'l Optical Astronomy Observatory	24,413	-	-	-	-	-	24,413	-
Nat'l Radio Astronomy Observatory	28,516	-	-	-	-	-	28,516	-
Oak Ridge Associated Universities	26,850	-	373	24,757	893	-	-	827
Princeton Plasma Physics Lab	89,487	-	-	89,487	-	-	-	-
Software Engineering Institute	33,674	-	33,674	-	-	-	-	-
Stanford Linear Accelerator Ctr	115,491	-	-	114,365	1,126	-	-	-
FFRDCs admin by other nonprofit insts 1/	632,260	25	416,126	156,755	18,424	2,402	258	38,270
Aerospace Corporation	115,547	-	112,880	321	-	2,172	174	-
Arroyo Center	356	-	356	-	-	-	-	-
Center for Naval Analyses	38,046	-	38,046	-	-	-	-	-
Center for Nuclear Waste Reg. Analyses	5,270	-	-	-	-	-	-	5,270
Inst for Defense Analyses	54,828	-	54,828	-	-	-	-	-
Inhalation Toxic. Res. Institute	7,810	-	-	7,598	-	-	-	212
Logistics Management Institute	36,328	-	36,328	-	-	-	-	-
C3 I Federal Contract Research Ctr	163,641	-	163,641	-	-	-	-	-
Nat'l Defense Research Institute	7,375	-	3,890	-	3,484	-	-	1
Pacific Northwest Laboratories	120,252	25	1,537	91,962	10,843	43	84	15,758
Project Air Force	95	-	23	-	-	72	-	-
Solar Energy Research Inst	60,849	-	-	56,637	4,097	115	-	-

1/ Other than universities and colleges

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991, and 1992

Table C-14. Federal obligations for R&D plant to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1990

[Dollars in thousands]

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aeronautics & Space Admin	National Science Foundation	Other
Total, all FFRDCs	758,185	65	65,555	669,269	-	12,873	10,423	-
FFRDCs admin by industrial firms	231,009	-	21,558	209,451	-	-	-	-
Bettis Atomic Power Lab	43,338	-	-	43,338	-	-	-	-
Energy Tech Engineering Ctr	512	-	-	512	-	-	-	-
Hanford Engineering Devt Lab	28,638	-	100	28,538	-	-	-	-
Idaho Nat'l Engineering Lab	6,967	-	-	6,967	-	-	-	-
Knolls Atomic Power Lab	39,675	-	-	39,675	-	-	-	-
Oak Ridge National Lab	25,328	-	200	25,128	-	-	-	-
Sandia National Laboratory	84,332	-	21,258	63,074	-	-	-	-
Savannah River Laboratory	2,219	-	-	2,219	-	-	-	-
FFRDCs admin by univs & colleges	495,791	65	23,647	448,783	-	12,873	10,423	-
Ames Laboratory	3,518	-	-	3,518	-	-	-	-
Argonne National Laboratory	68,004	-	-	68,004	-	-	-	-
Brookhaven National Lab	39,193	60	-	39,133	-	-	-	-
Continuous Electron Beam Accel Facil.	64,271	-	-	64,271	-	-	-	-
Lawrence Berkeley Lab	52,450	-	-	52,450	-	-	-	-
Lawrence Livermore Nat'l Lab	54,419	-	315	54,104	-	-	-	-
Fermi National Scientific Laboratory	41,287	-	-	41,287	-	-	-	-
Jet Propulsion Laboratory	12,873	-	-	-	-	12,873	-	-
Lincoln Laboratory	21,962	-	21,962	-	-	-	-	-
Los Alamos National Lab	95,419	5	1,181	94,233	-	-	-	-
Nat'l Astronomy & Ionosphere Ctr	1,913	-	-	-	-	-	1,913	-
Nat'l Center for Atmospheric Rsch	4,100	-	-	-	-	-	4,100	-
Nat'l Radio Astronomy Observatory	4,410	-	-	-	-	-	4,410	-
Oak Ridge Associated Universities	315	-	-	315	-	-	-	-
Princeton Plasma Physics Lab	2,954	-	-	2,954	-	-	-	-
Software Engineering Institute	189	-	189	-	-	-	-	-
Stanford Linear Accelerator Ctr	28,514	-	-	28,514	-	-	-	-
FFRDCs admin by other nonprofit insts 1/	31,385	-	20,350	11,035	-	-	-	-
Inhalation Toxic. Res. Institute	453	-	-	453	-	-	-	-
C3 I Federal Contract Research Ctr	20,350	-	20,350	-	-	-	-	-
Pacific Northwest Laboratories	8,396	-	-	8,396	-	-	-	-
Solar Energy Research Inst	2,186	-	-	2,186	-	-	-	-

1/ Other than universities and colleges

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991, and 1992

Table C-15. Federal obligations for research, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	21,738,866	5,953,286	3,199,864	542,722	8,141,543	1,808,080	1,662,182	148,245	126,427	156,517
Departments										
Department of Agriculture, total	1,069,256	700,519	6,101	-	346,008	-	8,843	-	1,972	5,813
Agricultural Cooperative Service	2,721	2,498	-	-	223	-	-	-	-	-
Agricultural Marketing Service 2/	2,240	2,037	-	-	79	-	89	-	35	-
Agricultural Research Service	512,261	474,598	-	-	30,721	-	3,307	-	89	3,546
Animal & Plant Health Inspection Svc	7,970	7,528	-	-	387	-	55	-	-	-
Cooperative State Research Service	324,243	14,569	4,037	-	298,948	-	5,327	-	1,367	-
Economic Research Service	50,534	49,246	-	-	1,288	-	-	-	-	-
Federal Grain Inspection Service	222	104	-	-	93	-	25	-	-	-
Forest Service	153,800	140,581	341	-	12,300	-	45	-	481	52
Human Nutrition Information Service	9,031	5,800	1,700	-	1,531	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,786	2,545	23	-	218	-	-	-	-	-
Off of Internat'l Cooperation & Development	3,448	1,013	-	-	220	-	-	-	-	2,215
Department of Commerce, total	376,994	312,928	9,601	25	47,367	100	480	25	6,396	72
Bureau of the Census	4,865	2,278	-	-	2,587	-	-	-	-	-
Economic Development Administration	1,188	764	235	-	130	-	59	-	-	-
Nat'l Institute of Standards & Tech	111,755	103,623	1,254	-	6,483	100	258	-	-	37
Nat'l Oceanic & Atmospheric Admin	252,408	199,485	8,112	25	38,167	-	163	25	6,396	35
Nat'l Telecomm & Information Admin	6,778	6,778	-	-	-	-	-	-	-	-
Department of Defense, total	3,529,229	1,209,065	1,294,593	31,093	795,087	76,923	85,076	17,367	-	20,025
Department of the Army	780,237	480,207	177,040	6,596	84,466	7,338	14,682	1,476	-	8,232
Department of the Navy	807,594	349,157	171,447	14,316	226,107	6,986	33,687	485	-	5,409
Department of the Air Force	776,344	219,197	350,768	-	181,862	-	20,762	700	-	3,055
Defense agencies	1,165,054	160,504	595,338	10,181	302,652	62,599	15,745	14,706	-	3,329
Department of Education	130,252	15,253	11,902	-	77,582	-	23,382	-	1,943	190
Department of Energy	2,570,483	158,457	172,627	413,741	478,937	1,148,049	109,043	84,477	4,163	989
Dept of Hlth & Human Services, total	7,467,093	1,453,055	313,313	14,053	4,424,619	25,473	1,098,519	16,677	81,531	39,853
Administration for Children and Families 3/	7,728	381	1,507	-	2,421	-	2,462	-	957	-
Agency for Health Care Policy & Research 4/	44,200	11,556	8,162	-	20,777	-	3,360	-	7	338
Alcohol, Drug Abuse & Mental Hlth Admin	801,198	198,926	9,214	-	474,119	202	84,822	-	30,817	3,098
Centers for Disease Control	95,600	38,508	5,228	-	29,632	-	22,057	-	175	-
Food & Drug Administration	99,000	92,070	-	-	5,940	-	990	-	-	-
Health Care Financing Admin	49,111	273	13,316	-	8,369	-	25,283	-	1,733	137
Health Resources and Services Administration	11,856	3,010	-	-	6,265	-	2,159	-	422	-
National Institutes of Health	6,335,800	1,096,593	273,347	14,053	3,874,457	25,271	952,151	16,677	47,064	36,187
Office of Assistant Secretary for Health	5,844	5,844	-	-	-	-	-	-	-	-
Office of the Secretary	4,966	1,421	2,220	-	539	-	761	-	-	25
Social Security Administration	11,790	4,473	319	-	2,100	-	4,474	-	356	68
Dept of Housing & Urban Development	6,595	6,123	345	-	16	-	111	-	-	-
Department of the Interior, total	475,214	405,517	13,120	3,741	49,398	-	253	-	2,658	527
Bureau of Land Management	2,100	2,000	-	-	100	-	-	-	-	-
Bureau of Mines	89,912	64,352	10,133	3,586	11,702	-	-	-	139	-
Bureau of Reclamation	5,326	4,938	-	-	281	-	107	-	-	-
Geological Survey	293,248	263,112	2,948	-	24,659	-	-	-	2,519	10
Minerals Management Service	1,855	1,014	39	155	125	-	5	-	-	517
National Park Service	20,087	14,300	-	-	5,646	-	141	-	-	-
Off of Surface Mining Reclamation & Enforcement	686	1	-	-	685	-	-	-	-	-
US Fish & Wildlife Service	62,000	55,800	-	-	6,200	-	-	-	-	-
Department of Justice, total	19,871	2,324	822	-	5,530	-	8,616	-	2,579	-
Drug Enforcement Administration	354	21	333	-	-	-	-	-	-	-
Federal Prison System	1,800	1,625	-	-	175	-	-	-	-	-
Immigration & Naturalization Svc	400	40	360	-	-	-	-	-	-	-
Office of Justice Programs	17,317	638	129	-	5,355	-	8,616	-	2,579	-
Department of Labor, total	21,633	6,313	5,124	-	5,604	-	1,836	-	2,727	29
Bureau of Labor Statistics	7,300	2,500	-	-	4,800	-	-	-	-	-
Employment Standards Administration	53	53	-	-	-	-	-	-	-	-
Employment and Training Admin	6,006	430	300	-	764	-	1,756	-	2,727	29
Occupational Safety & Health Admin	2,526	378	2,148	-	-	-	-	-	-	-
Office of the Secretary	3,338	2,147	1,071	-	40	-	80	-	-	-
Pension Benefit Guaranty Corporation	300	300	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,110	505	1,605	-	-	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-15. Federal obligations for research, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of State	4,692	239	67	-	1,230	-	3,148	1	-	7
Department of Transportation, total	118,945	35,104	49,753	-	12,483	-	4,480	6,543	9,930	652
Coast Guard	5,058	3,442	1,616	-	-	-	-	-	-	-
Federal Aviation Administration	26,125	15,929	3,653	-	-	-	-	6,543	-	-
Federal Highway Administration	57,417	1,312	36,925	-	8,603	-	-	-	9,930	647
Federal Railroad Administration	8,464	4,991	705	-	170	-	2,598	-	-	-
Maritime Administration	900	278	622	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	16,930	7,248	4,085	-	3,710	-	1,882	-	-	5
Office of the Secretary	1,670	188	1,482	-	-	-	-	-	-	-
Research & Special Programs Admin	2,381	1,716	665	-	-	-	-	-	-	-
Department of the Treasury, total	18,706	12,125	6,354	-	-	227	-	-	-	-
Bureau of Engraving and Printing	1,364	1,137	-	-	-	227	-	-	-	-
Internal Revenue Service	16,464	10,652	5,812	-	-	-	-	-	-	-
Office of Protective Research	478	236	242	-	-	-	-	-	-	-
United States Customs Service	400	100	300	-	-	-	-	-	-	-
Department of Veterans Affairs	215,600	214,800	-	-	800	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1,513	1,513	-	-	-	-	-	-	-	-
Agency for Internat'l Development	305,219	18,994	25,787	-	66,811	-	121,928	-	-	71,699
Appalachian Regional Commission	401	9	142	-	100	-	40	-	110	-
Consumer Product Safety Commission	440	365	34	-	41	-	-	-	-	-
Environmental Protection Agency	315,242	97,055	121,443	-	77,513	-	12,475	-	6,756	-
Federal Communications Commission	1,329	1,329	-	-	-	-	-	-	-	-
Federal Trade Commission	459	459	-	-	-	-	-	-	-	-
General Services Administration	665	665	-	-	-	-	-	-	-	-
International Trade Commission	9,065	9,065	-	-	-	-	-	-	-	-
Library of Congress	1,461	1,461	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	3,060,691	1,047,604	1,079,972	-	421,815	418,100	78,761	1,657	2,465	10,317
National Archives & Records Admin	255	235	-	-	-	20	-	-	-	-
National Science Foundation	1,689,535	86,255	72,145	363	1,320,920	106,087	98,048	258	3,197	2,262
Nuclear Regulatory Commission	217,524	49,012	16,446	79,706	9,252	33,076	4,710	21,240	-	4,082
Office of Thrift Supervision 5/	4,126	4,126	-	-	-	-	-	-	-	-
Smithsonian Institution	83,987	83,987	-	-	-	-	-	-	-	-
Tennessee Valley Authority	21,723	18,860	-	-	430	-	2,433	-	-	-
US Arms Control & Disarmament Agency	218	20	173	-	-	25	-	-	-	-
United States Information Agency	450	450	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	24,071,967	6,540,261	3,650,242	582,481	9,077,375	1,867,746	1,899,433	166,094	138,283	150,052
Departments										
Department of Agriculture, total	1,176,808	749,569	5,759	30	405,571	-	9,387	-	2,065	4,427
Agricultural Cooperative Service	2,870	2,647	-	-	223	-	-	-	-	-
Agricultural Marketing Service 2/	2,512	2,512	-	-	-	-	-	-	-	-
Agricultural Research Service	553,151	507,663	-	-	38,540	-	3,548	-	96	3,304
Animal & Plant Health Inspection Svc	8,713	8,181	-	-	437	-	95	-	-	-
Cooperative State Research Service	376,722	16,680	4,737	-	348,213	-	5,691	-	1,401	-
Economic Research Service	54,400	53,200	-	-	1,200	-	-	-	-	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-	-
Forest Service	162,800	146,116	402	-	15,600	-	53	-	568	61
Human Nutrition Information Service	9,998	8,518	620	-	860	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,920	2,617	-	30	273	-	-	-	-	-
Off of Internat'l Cooperation & Development	2,388	1,101	-	-	225	-	-	-	-	1,062
Department of Commerce, total	444,647	354,060	31,498	-	51,162	100	617	-	7,116	94
Bureau of the Census	3,610	2,691	-	-	919	-	-	-	-	-
Economic Development Administration	1,190	755	-	-	245	-	190	-	-	-
Nat'l Institute of Standards & Tech	140,360	111,470	23,330	-	5,165	100	258	-	-	37
Nat'l Oceanic & Atmospheric Admin	292,439	232,096	8,168	-	44,833	-	169	-	7,116	57
Nat'l Telecomm & Information Admin	7,048	7,048	-	-	-	-	-	-	-	-
Department of Defense, total	3,805,846	1,202,075	1,351,268	31,987	1,021,285	74,786	89,771	15,311	-	19,363
Department of the Army	786,076	458,212	211,119	1,605	85,590	5,593	16,262	855	-	6,840
Department of the Navy	878,933	387,780	185,399	15,567	246,215	5,298	31,736	530	-	6,408
Department of the Air Force	712,515	201,336	319,564	-	169,095	-	19,042	658	-	2,820
Defense agencies	1,428,322	154,747	635,186	14,815	520,385	63,895	22,731	13,268	-	3,295
Department of Education	156,374	17,038	13,235	-	86,070	2,367	35,612	-	2,052	-
Department of Energy	2,962,987	200,932	275,063	449,036	561,938	1,218,198	152,151	99,238	5,307	1,124
Dept of Hlth & Human Services, total	8,200,352	1,619,122	354,056	15,291	4,812,918	27,984	1,213,779	17,873	94,789	44,540
Administration for Children and Families 3/	8,944	438	1,442	-	4,047	-	2,669	-	348	-
Agency for Health Care Policy & Research 4/	87,200	20,929	17,049	-	41,891	-	6,807	-	10	514
Alcohol, Drug Abuse & Mental Hlth Admin	909,217	216,787	11,005	-	546,948	242	94,793	-	35,489	3,953
Centers for Disease Control	109,600	50,608	6,000	-	29,632	-	23,160	-	200	-
Food & Drug Administration	110,000	102,789	-	-	6,600	-	611	-	-	-
Health Care Financing Admin	69,778	347	18,256	-	10,426	-	34,065	-	6,458	226
Health Resources and Services Administration	10,746	2,996	-	-	5,650	-	2,100	-	-	-
National Institutes of Health	6,857,200	1,201,357	298,451	15,291	4,161,474	27,742	1,043,747	17,873	51,563	39,702
Office of Assistant Secretary for Health	9,631	9,631	-	-	-	-	-	-	-	-
Office of the Secretary	8,928	1,500	1,528	-	4,000	-	1,300	-	500	100
Social Security Administration	19,108	11,740	325	-	2,250	-	4,527	-	221	45
Dept of Housing & Urban Development	11,400	6,590	4,659	-	23	-	128	-	-	-
Department of the Interior, total	549,298	461,254	25,146	3,671	54,595	-	200	-	3,744	688
Bureau of Land Management	3,719	1,468	-	-	2,251	-	-	-	-	-
Bureau of Mines	103,412	67,580	21,557	3,620	10,561	-	-	-	94	-
Bureau of Reclamation	7,800	7,800	-	-	-	-	-	-	-	-
Geological Survey	335,815	301,834	3,081	-	27,250	-	-	-	3,650	-
Minerals Management Service	2,582	1,071	508	51	264	-	-	-	-	688
National Park Service	25,200	18,300	-	-	6,700	-	200	-	-	-
Off of Surface Mining Reclamation & Enforcement	970	1	-	-	969	-	-	-	-	-
US Fish & Wildlife Service	69,800	63,200	-	-	6,600	-	-	-	-	-
Department of Justice, total	21,314	2,440	2,605	100	5,000	-	10,303	-	866	-
Drug Enforcement Administration	345	50	195	100	-	-	-	-	-	-
Federal Prison System	1,800	1,650	-	-	150	-	-	-	-	-
Immigration & Naturalization Svc	400	40	360	-	-	-	-	-	-	-
Office of Justice Programs	18,769	700	2,050	-	4,850	-	10,303	-	866	-
Department of Labor, total	24,787	6,207	7,601	-	5,915	-	2,064	-	3,000	-
Bureau of Labor Statistics	7,400	2,500	-	-	4,900	-	-	-	-	-
Employment Standards Administration	181	181	-	-	-	-	-	-	-	-
Employment and Training Admin	6,664	130	1,000	-	870	-	1,664	-	3,000	-
Occupational Safety & Health Admin	3,265	400	2,865	-	-	-	-	-	-	-
Office of the Secretary	4,382	2,115	1,722	-	145	-	400	-	-	-
Pension Benefit Guaranty Corporation	355	355	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,540	526	2,014	-	-	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of State	8,930	276	67	-	1,419	-	7,160	-	-	8
Department of Transportation, total	145,618	42,590	65,306	158	14,768	-	10,366	6,663	3,843	1,924
Coast Guard	6,150	4,192	1,958	-	-	-	-	-	-	-
Federal Aviation Administration	28,013	15,882	5,518	-	-	-	-	6,613	-	-
Federal Highway Administration	66,922	1,050	45,582	158	10,918	-	4,647	-	3,343	1,224
Federal Railroad Administration	19,283	9,512	5,127	-	750	-	3,394	-	500	-
Maritime Administration	1,000	300	475	-	100	-	125	-	-	-
Nat'l Highway Traffic Safety Admin	21,368	10,021	5,447	-	3,000	-	2,200	-	-	700
Office of the Secretary	622	82	490	-	-	-	-	50	-	-
Research & Special Programs Admin	2,260	1,551	709	-	-	-	-	-	-	-
Department of the Treasury, total	21,619	14,968	6,422	-	-	229	-	-	-	-
Bureau of Engraving and Printing	3,095	2,866	-	-	-	229	-	-	-	-
Internal Revenue Service	17,521	11,709	5,812	-	-	-	-	-	-	-
Office of Protective Research	493	243	250	-	-	-	-	-	-	-
United States Customs Service	510	150	360	-	-	-	-	-	-	-
Department of Veterans Affairs	220,900	220,100	-	-	800	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1,528	1,528	-	-	-	-	-	-	-	-
Agency for Internat'l Development	289,997	14,484	23,572	-	50,034	-	140,022	-	-	61,885
Appalachian Regional Commission	302	56	40	-	-	-	-	-	206	-
Consumer Product Safety Commission	1,102	1,039	63	-	-	-	-	-	-	-
Environmental Protection Agency	342,685	110,644	122,911	-	78,110	-	21,670	-	9,350	-
Federal Communications Commission	1,561	1,561	-	-	-	-	-	-	-	-
Federal Trade Commission	493	493	-	-	-	-	-	-	-	-
International Trade Commission	10,906	10,906	-	-	-	-	-	-	-	-
Library of Congress	1,579	1,579	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	3,463,870	1,235,710	1,248,922	-	476,237	399,919	89,135	1,548	2,448	9,951
National Archives & Records Admin	611	486	-	-	-	125	-	-	-	-
National Science Foundation	1,847,037	86,726	91,035	400	1,440,179	110,487	112,172	85	3,497	2,456
Nuclear Regulatory Commission	229,578	50,948	20,934	81,808	10,896	33,526	2,498	25,376	-	3,592
Office of Thrift Supervision 5/	3,291	3,291	-	-	-	-	-	-	-	-
Smithsonian Institution	98,180	98,180	-	-	-	-	-	-	-	-
Tennessee Valley Authority	27,692	24,864	-	-	430	-	2,398	-	-	-
US Arms Control & Disarmament Agency	275	145	80	-	25	25	-	-	-	-
United States Information Agency	400	400	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-17. Federal obligations for research, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	25,683,410	7,148,193	3,989,956	617,434	9,455,470	2,032,921	1,968,443	178,839	134,032	158,122
Departments										
Department of Agriculture, total	1,211,837	785,776	9,325	30	406,684	-	4,910	-	1,749	3,363
Agricultural Cooperative Service	3,018	2,795	-	-	223	-	-	-	-	-
Agricultural Marketing Service 2/	2,671	2,671	-	-	-	-	-	-	-	-
Agricultural Research Service	585,421	539,756	-	-	38,540	-	3,720	-	101	3,304
Animal & Plant Health Inspection Svc	9,184	8,636	-	-	443	-	105	-	-	-
Cooperative State Research Service	373,151	17,288	4,685	-	349,045	-	1,034	-	1,099	-
Economic Research Service	62,479	61,279	-	-	1,200	-	-	-	-	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-	-
Forest Service	158,500	142,351	390	-	15,100	-	51	-	549	59
Human Nutrition Information Service	12,654	6,784	4,250	-	1,620	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3,014	2,711	-	30	273	-	-	-	-	-
Off of Internat'l Cooperation & Development	1,411	1,171	-	-	240	-	-	-	-	-
Department of Commerce, total	452,174	387,388	25,802	-	38,132	100	358	-	300	94
Bureau of the Census	3,901	2,691	-	-	1,210	-	-	-	-	-
Nat'l Institute of Standards & Tech	150,277	126,800	19,501	-	3,581	100	258	-	-	37
Nat'l Oceanic & Atmospheric Admin	290,948	250,849	6,301	-	33,341	-	100	-	300	57
Nat'l Telecomm & Information Admin	7,048	7,048	-	-	-	-	-	-	-	-
Department of Defense, total	3,911,471	1,365,057	1,425,873	27,837	920,828	48,277	95,425	4,333	-	23,841
Department of the Army	862,337	500,499	245,500	870	90,267	9,072	8,973	300	-	6,856
Department of the Navy	939,430	419,480	198,057	16,474	260,116	4,943	33,061	566	-	6,733
Department of the Air Force	850,994	240,129	386,640	-	197,369	-	22,771	753	-	3,332
Defense agencies	1,258,710	204,949	595,676	10,493	373,076	34,262	30,620	2,714	-	6,920
Department of Education	164,983	18,328	11,760	-	96,420	-	35,383	-	3,092	-
Department of Energy	2,942,365	238,922	211,282	475,376	465,970	1,316,573	111,843	118,349	3,385	665
Dept of Hlth & Human Services, total	8,671,223	1,718,951	362,198	16,292	5,121,377	29,908	1,260,806	18,932	95,768	46,991
Administration for Children and Families 3/	8,774	461	1,444	-	3,964	-	2,440	-	465	-
Agency for Health Care Policy & Research 4/	31,200	15,744	7,269	-	6,967	-	1,132	-	2	86
Alcohol, Drug Abuse & Mental Hlth Admin	969,120	227,524	11,925	-	585,836	261	101,765	-	37,492	4,317
Centers for Disease Control	113,300	52,825	6,300	-	29,632	-	24,318	-	225	-
Food & Drug Administration	125,300	116,529	-	-	7,518	-	1,253	-	-	-
Health Care Financing Admin	36,000	324	15,228	-	9,576	-	8,748	-	1,980	144
Health Resources and Services Administration	10,898	3,298	-	-	5,500	-	2,100	-	-	-
National Institutes of Health	7,345,600	1,282,104	318,125	16,292	4,468,834	29,647	1,114,220	18,932	55,052	42,394
Office of Assistant Secretary for Health	2,300	2,300	-	-	-	-	-	-	-	-
Office of the Secretary	5,037	1,500	1,537	-	1,000	-	1,000	-	-	-
Social Security Administration	23,694	16,342	370	-	2,550	-	3,830	-	552	50
Dept of Housing & Urban Development	13,202	5,474	6,310	-	-	-	1,418	-	-	-
Department of the Interior, total	520,199	454,568	11,455	3,300	47,301	-	375	-	1,700	1,500
Bureau of Land Management	7,851	2,741	-	-	5,110	-	-	-	-	-
Bureau of Mines	76,752	61,954	6,568	3,000	5,230	-	-	-	-	-
Bureau of Reclamation	10,600	10,160	-	-	315	-	125	-	-	-
Geological Survey	321,060	297,581	3,070	-	18,709	-	-	-	1,700	-
Minerals Management Service	5,714	1,781	1,233	300	900	-	-	-	-	1,500
National Park Service	29,000	21,250	-	-	7,500	-	250	-	-	-
Off of Surface Mining Reclamation & Enforcement	2,922	1	584	-	2,337	-	-	-	-	-
US Fish & Wildlife Service	66,300	59,100	-	-	7,200	-	-	-	-	-
Department of Justice, total	18,045	2,940	1,360	-	4,950	-	7,095	-	1,700	-
Drug Enforcement Administration	795	50	500	-	-	-	245	-	-	-
Federal Prison System	1,700	1,550	-	-	150	-	-	-	-	-
Immigration & Naturalization Svc	400	40	360	-	-	-	-	-	-	-
Office of Justice Programs	15,150	1,300	500	-	4,800	-	6,850	-	1,700	-
Department of Labor, total	30,048	7,054	9,745	6,852	1,175	-	2,722	-	2,500	-
Bureau of Labor Statistics	7,700	2,900	-	4,800	-	-	-	-	-	-
Employment Standards Administration	139	139	-	-	-	-	-	-	-	-
Employment and Training Admin	5,609	230	950	-	495	-	1,434	-	2,500	-
Occupational Safety & Health Admin	3,265	400	2,865	-	-	-	-	-	-	-
Office of the Secretary	10,285	2,387	5,930	-	680	-	1,288	-	-	-
Pension Benefit Guaranty Corporation	450	450	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,600	548	-	2,052	-	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-17. Federal obligations for research, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of State	8,987	287	66	-	7,830	-	796	1	-	7
Department of Transportation, total	135,962	43,778	58,713	122	11,572	-	10,386	4,850	4,592	1,949
Coast Guard	7,100	4,761	2,339	-	-	-	-	-	-	-
Federal Aviation Administration	25,793	13,643	7,300	-	-	-	-	4,850	-	-
Federal Highway Administration	52,020	1,390	35,791	122	7,572	-	3,604	-	2,592	949
Federal Railroad Administration	21,425	9,380	5,485	-	700	-	3,860	-	2,000	-
Maritime Administration	2,000	525	1,125	-	100	-	250	-	-	-
Nat'l Highway Traffic Safety Admin	23,743	11,135	5,936	-	3,000	-	2,672	-	-	1,000
Office of the Secretary	837	100	737	-	-	-	-	-	-	-
Research & Special Programs Admin	3,044	2,844	-	-	200	-	-	-	-	-
Department of the Treasury, total	21,982	15,191	6,562	-	-	229	-	-	-	-
Bureau of Engraving and Printing	3,306	3,077	-	-	-	229	-	-	-	-
Internal Revenue Service	17,521	11,709	5,812	-	-	-	-	-	-	-
Office of Protective Research	505	255	250	-	-	-	-	-	-	-
United States Customs Service	650	150	500	-	-	-	-	-	-	-
Department of Veterans Affairs	198,500	197,700	-	-	800	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1,416	1,416	-	-	-	-	-	-	-	-
Agency for Internat'l Development	299,053	10,732	24,039	-	35,360	-	166,306	-	-	62,616
Consumer Product Safety Commission	1,035	1,005	30	-	-	-	-	-	-	-
Environmental Protection Agency	395,438	91,172	159,172	-	108,655	-	23,750	-	12,689	-
Federal Communications Commission	1,414	1,414	-	-	-	-	-	-	-	-
Federal Trade Commission	519	519	-	-	-	-	-	-	-	-
International Trade Commission	11,790	11,790	-	-	-	-	-	-	-	-
Library of Congress	1,642	1,642	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	4,175,837	1,505,090	1,532,246	-	536,102	480,953	107,457	1,489	2,542	9,958
National Archives & Records Admin	460	210	-	-	-	250	-	-	-	-
National Science Foundation	2,101,632	88,462	112,388	565	1,638,078	122,237	132,965	100	4,015	2,822
Nuclear Regulatory Commission	250,938	56,258	20,730	86,960	13,760	34,244	3,960	30,710	-	4,316
Office of Thrift Supervision 5/	3,494	3,494	-	-	-	-	-	-	-	-
Smithsonian Institution	111,744	111,744	-	-	-	-	-	-	-	-
Tennessee Valley Authority	23,370	20,481	-	-	451	-	2,438	-	-	-
US Arms Control & Disarmament Agency	2,000	700	900	100	25	150	50	75	-	-
United States Information Agency	650	650	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-18. Federal obligations for research, by detailed field of science and engineering: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Field of Science and Engineering	1990	Estimates	
		1991	1992
Total, all fields	21,738,866	24,071,967	25,683,410
Life sciences, total	8,837,819	9,670,250	10,229,939
Biological (excluding environmental)	4,144,632	4,498,641	4,858,371
Environmental biology	342,344	399,472	396,133
Agricultural	699,388	735,063	788,022
Medical	3,382,350	3,753,767	3,925,062
Life sciences, n.e.c.	269,105	283,307	262,351
Psychology, total	448,601	486,549	522,332
Biological aspects	131,650	147,993	157,851
Social aspects	180,754	190,272	203,546
Psychological sciences, n.e.c.	136,197	148,284	160,935
Physical sciences, total	3,808,723	4,122,648	4,523,475
Astronomy	597,154	657,233	741,508
Chemistry	761,675	833,739	872,085
Physics	2,254,935	2,423,202	2,609,927
Physical sciences, n.e.c.	194,959	208,474	299,955
Environmental sciences, total	2,174,084	2,449,805	2,627,128
Atmospheric	773,394	881,603	990,033
Geological	661,114	750,728	749,781
Oceanography	520,125	586,307	617,418
Environmental sciences, n.e.c.	219,451	231,167	269,896
Mathematics & computer sciences, total	840,737	945,594	1,007,043
Mathematics	241,339	265,143	291,179
Computer sciences	562,128	639,519	672,111
Mathematics & computer sciences, n.e.c.	37,270	40,932	43,753
Engineering, total	4,335,171	4,923,513	5,359,324
Aeronautical	927,099	1,054,351	1,185,370
Astronautical	580,782	620,233	940,310
Chemical	241,853	273,414	217,781
Civil	317,465	344,265	359,709
Electrical	640,043	666,073	682,216
Mechanical	268,331	295,485	330,540
Metallurgy & materials	554,508	685,385	591,937
Engineering, n.e.c.	805,090	984,307	1,051,461
Social sciences, total	629,990	772,186	705,701
Anthropology	14,386	15,803	17,082
Economics	197,161	206,028	199,589
Political Science	13,146	14,582	17,059
Sociology	116,159	167,148	119,392
Social sciences, n.e.c.	289,138	368,625	352,579
Other sciences, n.e.c.	663,741	701,422	708,468

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-19. Federal obligations for research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	21,738,866	8,837,819	648,601	3,808,723	2,174,084	840,737	4,335,171	629,990	663,741
Departments									
Department of Agriculture, total	1,069,256	832,082	292	71,924	13,014	12,004	38,885	101,055	-
Agricultural Cooperative Service	2,721	-	-	-	-	-	-	2,721	-
Agricultural Marketing Service 1/	2,240	2,240	-	-	-	-	-	-	-
Agricultural Research Service	512,261	456,825	-	45,177	1,892	1,513	6,854	-	-
Animal & Plant Health Inspection Svc	7,970	7,970	-	-	-	-	-	-	-
Cooperative State Research Service	324,243	253,176	-	15,612	771	-	16,758	37,926	-
Economic Research Service	50,534	-	-	-	-	-	-	50,534	-
Federal Grain Inspection Service	222	222	-	-	-	-	-	-	-
Forest Service	153,800	99,170	292	11,135	10,351	7,705	15,273	9,874	-
Human Nutrition Information Service	9,031	9,031	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,786	-	-	-	-	2,786	-	-	-
Off of Internat'l Cooperation & Development	3,448	3,448	-	-	-	-	-	-	-
Department of Commerce, total	376,994	14,303	875	65,188	217,380	15,222	56,835	3,226	3,965
Bureau of the Census	4,865	-	712	-	-	3,573	-	529	51
Economic Development Administration	1,188	-	-	-	-	-	-	1,188	-
Nat'l Institute of Standards & Tech	111,755	-	-	51,476	232	9,808	50,009	230	-
Nat'l Oceanic & Atmospheric Admin	252,408	14,303	163	13,712	217,148	1,818	3,856	1,279	129
Nat'l Telecomm & Information Admin	6,778	-	-	-	-	23	2,970	-	3,785
Department of Defense, total	3,529,229	284,459	105,612	498,247	279,894	445,319	1,762,244	1,760	151,694
Department of the Army	780,237	153,351	40,259	100,084	24,439	65,425	376,971	1,760	17,948
Department of the Navy	807,594	41,068	29,927	122,647	113,847	80,639	408,786	-	10,680
Department of the Air Force	776,344	56,648	33,964	113,139	59,263	46,615	466,715	-	-
Defense agencies	1,165,054	33,392	1,462	162,377	82,345	252,640	509,772	-	123,066
Department of Education	130,252	18,768	5,786	-	-	805	4,959	99,934	-
Department of Energy	2,570,483	214,162	-	1,577,130	278,595	53,523	435,646	-	11,427
Dept of Hlth & Human Services, total	7,467,093	6,408,890	297,845	129,193	-	18,875	68,918	215,286	328,086
Administration for Children and Families 2/	7,728	-	-	-	-	-	-	7,728	-
Agency for Health Care Policy & Research 3/	44,200	-	-	-	-	-	-	44,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	801,198	488,720	201,001	9,926	-	1,807	806	75,006	23,932
Centers for Disease Control	95,600	95,600	-	-	-	-	-	-	-
Food & Drug Administration	99,000	99,000	-	-	-	-	-	-	-
Health Care Financing Admin	49,111	-	-	-	-	-	-	49,111	-
Health Resources and Services Administration	11,856	11,856	-	-	-	-	-	-	-
National Institutes of Health	6,335,800	5,707,870	96,844	119,267	-	16,768	68,112	22,785	304,154
Office of Asst Secy for Health	5,844	5,844	-	-	-	-	-	-	-
Office of the Secretary	4,966	-	-	-	-	300	-	4,666	-
Social Security Administration	11,790	-	-	-	-	-	-	11,790	-
Dept of Housing & Urban Development	6,595	-	-	172	-	61	91	5,998	273
Department of the Interior, total	475,214	82,860	-	28,722	260,951	12,032	88,419	2,131	99
Bureau of Land Management	2,100	2,000	-	-	100	-	-	-	-
Bureau of Mines	89,912	-	-	-	12,778	-	77,134	-	-
Bureau of Reclamation	5,326	1,168	-	1,203	267	-	2,589	-	99
Geological Survey	293,248	1,283	-	27,334	245,952	11,838	6,841	-	-
Minerals Management Service	1,855	-	-	-	-	-	1,855	-	-
National Park Service	20,087	15,980	-	-	1,854	122	-	2,131	-
Off of Surface Mining Reclamation & Enforcement	686	429	-	185	-	72	-	-	-
US Fish & Wildlife Service	62,000	62,000	-	-	-	-	-	-	-
Department of Justice, total	19,871	852	678	377	-	90	575	14,556	2,743
Drug Enforcement Administration	354	179	-	-	-	-	175	-	-
Federal Prison System	1,800	-	400	-	-	-	-	1,400	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	17,317	673	278	377	-	90	-	13,156	2,743

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-19. Federal obligations for research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	21,633	-	-	-	-	-	-	21,633	-
Bureau of Labor Statistics	7,300	-	-	-	-	-	-	7,300	-
Employment Standards Administration	53	-	-	-	-	-	-	53	-
Employment and Training Admin	6,006	-	-	-	-	-	-	6,006	-
Occupational Safety & Health Admin	2,526	-	-	-	-	-	-	2,526	-
Office of the Secretary	3,338	-	-	-	-	-	-	3,338	-
Pension Benefit Guaranty Corporation	300	-	-	-	-	-	-	300	-
Pension & Welfare Benefits Admin	2,110	-	-	-	-	-	-	2,110	-
Department of State	4,692	-	-	-	-	-	-	4,692	-
Department of Transportation, total	118,945	2,000	-	9,143	4,820	7,262	91,685	3,835	-
Coast Guard	5,058	-	-	170	-	1,450	2,785	653	-
Federal Aviation Administration	26,125	-	-	-	-	-	26,125	-	-
Federal Highway Administration	57,417	-	-	8,373	4,750	3,362	40,455	477	-
Federal Railroad Administration	8,464	-	-	-	-	-	8,126	338	-
Maritime Administration	900	-	-	-	70	10	820	-	-
Nat'l Highway Traffic Safety Admin	16,930	2,000	-	-	-	2,440	10,273	2,217	-
Office of the Secretary	1,670	-	-	600	-	-	920	150	-
Research & Special Programs Admin	2,381	-	-	-	-	-	2,381	-	-
Department of the Treasury, total	18,706	242	236	1,764	-	10,504	-	5,960	-
Bureau of Engraving and Printing	1,364	-	-	1,364	-	-	-	-	-
Internal Revenue Service	16,464	-	-	-	-	10,504	-	5,960	-
Office of Protective Research	478	242	236	-	-	-	-	-	-
United States Customs Service	400	-	-	400	-	-	-	-	-
Department of Veterans Affairs	215,600	196,166	14,366	-	-	-	5,068	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,513	-	-	-	-	-	-	1,513	-
Agency for Internat'l Development	305,219	206,611	-	-	419	2,840	4,324	55,550	35,475
Appalachian Regional Commission	401	-	-	-	-	-	-	-	401
Consumer Product Safety Commission	440	-	-	279	-	-	161	-	-
Environmental Protection Agency	315,242	137,202	1,176	41,017	65,591	4,268	61,489	219	4,280
Federal Communications Commission	1,329	-	-	-	-	70	851	408	-
Federal Trade Commission	459	-	-	-	-	-	-	459	-
General Services Administration	665	-	-	-	-	-	665	-	-
International Trade Commission	9,065	-	-	-	-	-	-	9,065	-
Library of Congress	1,461	-	-	-	-	-	-	-	1,461
National Aeronautics & Space Admin	3,060,691	140,333	10,808	890,205	607,642	70,845	1,324,603	84	16,171
National Archives & Records Admin	255	-	-	230	-	25	-	-	-
National Science Foundation	1,689,535	262,470	10,927	468,670	438,442	186,924	171,579	49,225	101,298
Nuclear Regulatory Commission	217,524	-	-	-	-	-	217,524	-	-
Office of Thrift Supervision 4/	4,126	-	-	-	-	-	-	4,126	-
Smithsonian Institution	83,987	30,350	-	18,066	6,599	-	-	28,972	-
Tennessee Valley Authority	21,723	6,069	-	8,396	737	-	-	153	6,368
US Arms Control & Disarmament Agency	218	-	-	-	-	68	-	150	-
United States Information Agency	450	-	-	-	-	-	450	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	24,071,967	9,670,250	486,549	4,122,648	2,449,805	945,594	4,923,513	772,186	701,422
Departments									
Department of Agriculture, total	1,176,808	919,697	309	79,774	14,994	12,717	41,223	108,094	-
Agricultural Cooperative Service	2,870	-	-	-	-	-	-	2,870	-
Agricultural Marketing Service 1/	2,512	2,512	-	-	-	-	-	-	-
Agricultural Research Service	553,151	491,200	-	50,107	3,230	1,641	6,973	-	-
Animal & Plant Health Inspection Svc	8,713	8,713	-	-	-	-	-	-	-
Cooperative State Research Service	376,722	299,579	-	17,881	807	-	18,083	40,372	-
Economic Research Service	54,400	-	-	-	-	-	-	54,400	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-
Forest Service	162,800	104,973	309	11,786	10,957	8,156	16,167	10,452	-
Human Nutrition Information Service	9,998	9,998	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,920	-	-	-	-	2,920	-	-	-
Off of Internat'l Cooperation & Development	2,388	2,388	-	-	-	-	-	-	-
Department of Commerce, total	444,647	14,624	582	71,996	255,463	24,484	70,813	3,227	3,458
Bureau of the Census	3,610	-	434	-	-	2,491	-	625	60
Economic Development Administration	1,190	-	-	-	-	-	-	1,190	-
Nat'l Institute of Standards & Tech	140,360	-	-	56,084	356	20,175	63,570	175	-
Nat'l Oceanic & Atmospheric Admin	292,439	14,624	148	15,912	255,107	1,818	3,458	1,237	135
Nat'l Telecomm & Information Admin	7,048	-	-	-	-	-	3,785	-	3,263
Department of Defense, total	3,805,846	01,410	101,946	492,689	295,059	490,430	1,972,193	11,586	140,533
Department of the Army	786,076	153,984	36,438	89,320	23,749	67,471	388,529	1,586	24,999
Department of the Navy	878,933	44,897	31,773	134,526	126,298	87,631	443,849	-	9,959
Department of the Air Force	712,515	52,775	30,905	107,812	54,668	47,323	419,032	-	-
Defense agencies	1,428,322	49,754	2,830	161,031	90,344	288,005	720,783	10,000	105,575
Department of Education	156,374	19,271	5,027	-	-	914	5,484	125,678	-
Department of Energy	2,962,987	287,729	-	1,753,863	315,331	63,984	528,325	-	13,755
Dept of Hlth & Human Services, total	8,200,352	6,974,038	334,536	140,824	-	20,638	74,705	302,465	353,146
Administration for Children and Families 2/	8,944	-	-	-	-	-	-	8,944	-
Agency for Health Care Policy & Research 3/	87,200	-	-	-	-	-	-	87,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	909,217	556,459	229,721	11,684	-	2,101	966	84,245	24,041
Centers for Disease Control	109,600	109,600	-	-	-	-	-	-	-
Food & Drug Administration	110,000	110,000	-	-	-	-	-	-	-
Health Care Financing Admin	69,778	-	-	-	-	-	-	69,778	-
Health Resources and Services Administration	10,746	10,746	-	-	-	-	-	-	-
National Institutes of Health	6,857,200	6,177,602	104,815	129,140	-	18,137	73,739	24,662	329,105
Office of Asst Secy for Health	9,631	9,631	-	-	-	-	-	-	-
Office of the Secretary	8,928	-	-	-	-	400	-	8,528	-
Social Security Administration	19,108	-	-	-	-	-	-	19,108	-
Dept of Housing & Urban Development	11,400	-	-	-	202	193	349	8,184	2,472
Department of the Interior, total	549,298	96,173	-	35,463	299,362	13,906	100,844	3,550	-
Bureau of Land Management	3,719	2,719	-	-	1,000	-	-	-	-
Bureau of Mines	103,412	-	-	-	17,013	-	86,399	-	-
Bureau of Reclamation	7,800	1,845	-	1,787	290	-	3,878	-	-
Geological Survey	335,815	1,909	-	33,676	278,189	13,706	7,985	350	-
Minerals Management Service	2,582	-	-	-	-	-	2,582	-	-
National Park Service	25,200	19,600	-	-	2,200	200	-	3,200	-
Off of Surface Mining Reclamation & Enforcement	970	300	-	-	670	-	-	-	-
US Fish & Wildlife Service	69,800	69,800	-	-	-	-	-	-	-
Department of Justice, total	21,314	100	700	75	-	300	745	17,244	2,150
Drug Enforcement Administration	345	-	-	-	-	-	345	-	-
Federal Prison System	1,800	-	400	-	-	-	-	1,400	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	18,769	100	300	75	-	300	-	15,844	2,150

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	24,787	-	-	-	-	-	-	24,787	-
Bureau of Labor Statistics	7,400	-	-	-	-	-	-	7,400	-
Employment Standards Administration	181	-	-	-	-	-	-	181	-
Employment and Training Admin	6,664	-	-	-	-	-	-	6,664	-
Occupational Safety & Health Admin	3,265	-	-	-	-	-	-	3,265	-
Office of the Secretary	4,382	-	-	-	-	-	-	4,382	-
Pension Benefit Guaranty Corporation	355	-	-	-	-	-	-	355	-
Pension & Welfare Benefits Admin	2,540	-	-	-	-	-	-	2,540	-
Department of State	8,930	-	-	-	-	-	-	8,930	-
Department of Transportation, total	145,618	924	527	8,832	4,451	7,407	117,815	5,662	-
Coast Guard	6,150	-	527	-	801	1,607	3,215	-	-
Federal Aviation Administration	28,013	-	-	-	-	-	28,013	-	-
Federal Highway Administration	66,922	-	-	7,474	3,650	3,198	51,710	890	-
Federal Railroad Administration	19,283	-	-	1,158	-	-	16,197	1,928	-
Maritime Administration	1,000	-	-	-	-	-	1,000	-	-
Nat'l Highway Traffic Safety Admin	21,368	924	-	-	-	2,602	15,070	2,772	-
Office of the Secretary	622	-	-	200	-	-	350	72	-
Research & Special Programs Admin	2,260	-	-	-	-	-	2,260	-	-
Department of the Treasury, total	21,619	250	243	3,155	-	11,178	450	6,343	-
Bureau of Engraving and Printing	3,095	-	-	2,645	-	-	450	-	-
Internal Revenue Service	17,521	-	-	-	-	11,178	-	6,343	-
Office of Protective Research	493	250	243	-	-	-	-	-	-
United States Customs Service	510	-	-	510	-	-	-	-	-
Department of Veterans Affairs	220,900	200,279	15,556	-	-	-	5,065	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,528	-	-	-	-	-	-	1,528	-
Agency for Internat'l Development	289,997	198,322	-	-	663	3,578	2,551	44,060	40,823
Appalachian Regional Commission	302	-	-	-	-	-	-	-	302
Consumer Product Safety Commission	1,102	-	-	178	-	-	924	-	-
Environmental Protection Agency	342,685	152,179	952	49,241	67,657	8,296	64,952	235	4,173
Federal Communications Commission	1,561	-	-	-	-	75	1,062	424	-
Federal Trade Commission	493	-	-	-	-	-	-	493	-
International Trade Commission	10,906	-	-	-	-	-	-	10,906	-
Library of Congress	1,579	-	-	-	-	-	-	-	1,579
National Aeronautics & Space Admin	3,463,870	178,206	13,176	946,336	700,237	81,127	1,519,187	95	25,506
National Archives & Records Admin	611	-	-	541	-	70	-	-	-
National Science Foundation	1,847,037	281,647	12,995	502,670	493,568	206,272	186,848	54,509	108,528
Nuclear Regulatory Commission	229,578	-	-	-	-	-	229,578	-	-
Office of Thrift Supervision 4/	3,291	-	-	-	-	-	-	3,291	-
Smithsonian Institution	98,180	35,642	-	24,838	7,068	-	-	30,632	-
Tennessee Valley Authority	27,692	9,759	-	12,028	750	-	-	158	4,997
US Arms Control & Disarmament Agency	275	-	-	145	-	25	-	105	-
United States Information Agency	400	-	-	-	-	-	400	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-21. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	25,683,410	10,229,939	522,332	4,523,475	2,627,128	1,007,043	5,359,324	705,701	708,468
Departments									
Department of Agriculture, total	1,211,837	954,959	301	82,804	14,908	12,692	36,795	109,378	-
Agricultural Cooperative Service	3,018	-	-	-	-	-	-	3,018	-
Agricultural Marketing Service 1/	2,671	2,671	-	-	-	-	-	-	-
Agricultural Research Service	585,421	519,854	-	53,031	3,419	1,737	7,380	-	-
Animal & Plant Health Inspection Svc	9,184	9,184	-	-	-	-	-	-	-
Cooperative State Research Service	373,151	306,651	-	18,298	822	-	13,675	33,705	-
Economic Research Service	62,479	-	-	-	-	-	-	62,479	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-
Forest Service	158,500	102,200	301	11,475	10,667	7,941	15,740	10,176	-
Human Nutrition Information Service	12,654	12,654	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3,014	-	-	-	-	3,014	-	-	-
Off of Internat'l Cooperation & Development	1,411	1,411	-	-	-	-	-	-	-
Department of Commerce, total	452,174	10,527	626	73,740	260,883	24,868	76,027	2,045	3,458
Bureau of the Census	3,901	-	488	-	-	2,728	-	625	60
Nat'l Institute of Standards & Tech	150,277	-	-	60,428	478	20,322	68,866	183	-
Nat'l Oceanic & Atmospheric Admin	290,948	10,527	138	13,312	260,405	1,818	3,376	1,237	135
Nat'l Telecomm & Information Admin	7,048	-	-	-	-	-	3,785	-	3,263
Department of Defense, total	3,911,471	309,475	107,610	649,705	300,712	483,201	1,963,098	1,472	96,298
Department of the Army	862,337	147,338	35,139	130,282	35,656	81,203	415,786	1,472	15,461
Department of the Navy	939,430	48,487	34,044	143,045	131,806	94,148	478,394	-	9,506
Department of the Air Force	850,994	65,844	37,650	128,387	67,826	56,550	494,737	-	-
Defense agencies	1,258,710	47,806	777	247,891	65,424	251,300	574,181	-	71,331
Department of Education	164,983	19,834	5,357	-	-	974	5,844	132,974	-
Department of Energy	2,942,365	220,417	-	1,791,790	344,934	86,756	488,620	-	9,848
Dept of Hlth & Human Services, total	8,671,223	7,465,170	357,346	151,479	-	21,973	80,079	219,709	375,467
Administration for Children and Families 2/	8,774	-	-	-	-	-	-	8,774	-
Agency for Health Care Policy & Research 3/	31,200	-	-	-	-	-	-	31,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	969,120	595,444	245,144	12,885	-	2,238	1,042	88,929	23,438
Centers for Disease Control	113,300	113,300	-	-	-	-	-	-	-
Food & Drug Administration	125,300	125,300	-	-	-	-	-	-	-
Health Care Financing Admin	36,000	-	-	-	-	-	-	36,000	-
Health Resources and Services Administration	10,898	10,898	-	-	-	-	-	-	-
National Institutes of Health	7,345,600	6,617,928	112,202	138,594	-	19,435	79,037	26,375	352,029
Office of Asst Secy for Health	2,300	2,300	-	-	-	-	-	-	-
Office of the Secretary	5,037	-	-	-	-	300	-	4,737	-
Social Security Administration	23,694	-	-	-	-	-	-	23,694	-
Dept of Housing & Urban Development	13,202	-	-	-	151	660	320	7,378	4,693
Department of the Interior, total	520,199	98,039	-	38,748	280,492	15,128	83,730	4,062	-
Bureau of Land Management	7,851	4,739	-	-	3,000	-	-	112	-
Bureau of Mines	76,752	-	-	-	11,212	-	65,540	-	-
Bureau of Reclamation	10,600	1,405	-	4,965	380	-	3,850	-	-
Geological Survey	321,060	2,195	-	33,783	261,600	14,828	8,204	450	-
Minerals Management Service	5,714	-	-	-	-	-	5,714	-	-
National Park Service	29,000	22,500	-	-	2,700	300	-	3,500	-
Off of Surface Mining Reclamation & Enforcement	2,922	900	-	-	1,600	-	422	-	-
US Fish & Wildlife Service	66,300	66,300	-	-	-	-	-	-	-
Department of Justice, total	18,045	300	1,925	-	125	900	745	13,550	500
Drug Enforcement Administration	795	-	325	-	125	-	345	-	-
Federal Prison System	1,700	-	400	-	-	-	-	1,300	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	15,150	300	1,200	-	-	900	-	12,250	500

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-21. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	30,048	-	-	-	-	-	-	30,048	-
Bureau of Labor Statistics	7,700	-	-	-	-	-	-	7,700	-
Employment Standards Administration	139	-	-	-	-	-	-	139	-
Employment and Training Admin	5,609	-	-	-	-	-	-	5,609	-
Occupational Safety & Health Admin	3,265	-	-	-	-	-	-	3,265	-
Office of the Secretary	10,285	-	-	-	-	-	-	10,285	-
Pension Benefit Guaranty Corporation	450	-	-	-	-	-	-	450	-
Pension & Welfare Benefits Admin	2,600	-	-	-	-	-	-	2,600	-
Department of State	8,987	-	-	-	-	-	-	8,987	-
Department of Transportation, total	135,962	1,097	702	7,825	4,075	7,051	108,322	6,690	200
Coast Guard	7,100	-	702	-	940	1,800	3,658	-	-
Federal Aviation Administration	25,793	-	-	-	-	-	25,793	-	-
Federal Highway Administration	52,020	-	-	5,811	2,835	2,487	40,195	692	-
Federal Railroad Administration	21,425	-	-	1,714	-	-	17,140	2,571	-
Maritime Administration	2,000	-	-	-	300	-	1,700	-	-
Nat'l Highway Traffic Safety Admin	23,743	1,097	-	-	-	2,764	16,555	3,327	-
Office of the Secretary	837	-	-	300	-	-	437	100	-
Research & Special Programs Admin	3,044	-	-	-	-	-	2,844	-	200
Department of the Treasury, total	21,982	250	255	3,656	-	11,178	300	6,343	-
Bureau of Engraving and Printing	3,306	-	-	3,006	-	-	300	-	-
Internal Revenue Service	17,521	-	-	-	-	11,178	-	6,343	-
Office of Protective Research	505	250	255	-	-	-	-	-	-
United States Customs Service	650	-	-	650	-	-	-	-	-
Department of Veterans Affairs	198,500	177,950	15,550	-	-	-	5,000	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,416	-	-	-	-	-	-	1,416	-
Agency for Internat'l Development	299,053	205,632	-	-	610	2,356	2,924	44,708	42,823
Consumer Product Safety Commission	1,035	-	-	115	-	-	920	-	-
Environmental Protection Agency	395,438	167,058	1,002	68,096	71,254	10,045	72,588	391	5,004
Federal Communications Commission	1,414	-	-	-	-	78	1,100	236	-
Federal Trade Commission	519	-	-	-	-	-	-	519	-
International Trade Commission	11,790	-	-	-	-	-	-	11,790	-
Library of Congress	1,642	-	-	-	-	-	-	-	1,642
National Aeronautics & Space Admin	4,175,837	236,871	17,160	1,057,209	780,882	85,131	1,960,664	107	37,813
National Archives & Records Admin	460	-	-	460	-	-	-	-	-
National Science Foundation	2,101,632	317,144	14,498	559,882	559,525	243,952	220,560	63,247	122,824
Nuclear Regulatory Commission	250,938	-	-	-	-	-	250,938	-	-
Office of Thrift Supervision 4/	3,494	-	-	-	-	-	-	3,494	-
Smithsonian Institution	111,744	38,709	-	29,127	7,759	-	-	36,149	-
Tennessee Valley Authority	23,370	6,507	-	7,989	818	-	-	158	7,898
US Arms Control & Disarmament Agency	2,000	-	-	950	-	100	100	850	-
United States Information Agency	650	-	-	-	-	-	650	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-22. Federal obligations for research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	448,601	131,650	180,754	136,197	8,837,819	4,144,632	342,344	699,388	3,382,350	269,105
Departments										
Department of Agriculture, total	292	-	292	-	832,082	116,412	152,390	538,747	24,533	-
Agricultural Marketing Service 1/	-	-	-	-	2,240	-	-	2,240	-	-
Agricultural Research Service	-	-	-	-	456,825	22,980	38,450	385,345	10,050	-
Animal & Plant Health Inspection Svc	-	-	-	-	7,970	-	-	7,970	-	-
Cooperative State Research Service	-	-	-	-	253,176	54,183	54,019	130,491	14,483	-
Federal Grain Inspection Service	-	-	-	-	222	-	-	222	-	-
Forest Service	292	-	292	-	99,170	39,249	59,921	-	-	-
Human Nutrition Information Service	-	-	-	-	9,031	-	-	9,031	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	3,448	-	-	3,448	-	-
Department of Commerce, total	875	163	712	-	14,303	-	5,975	6,942	1,386	-
Bureau of the Census	712	-	712	-	-	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	163	163	-	-	14,303	-	5,975	6,942	1,386	-
Department of Defense, total	105,612	12,277	78,308	15,027	284,459	58,730	15,368	-	166,060	44,301
Department of the Army	40,259	880	36,997	2,382	153,351	10,141	1,419	-	141,791	-
Department of the Navy	29,927	10,074	17,082	2,771	41,068	15,989	4,146	-	19,435	1,498
Department of the Air Force	33,964	1,323	22,767	9,874	56,648	5,301	7,633	-	911	42,803
Defense agencies	1,462	-	1,462	-	33,392	27,299	2,170	-	3,923	-
Department of Education	5,786	203	3,101	2,482	18,768	3,314	-	-	9,836	5,618
Department of Energy	-	-	-	-	214,162	159,430	655	325	36,890	16,862
Dept of Hlth & Human Services, total	297,845	99,267	82,948	115,630	6,408,890	3,400,701	789	164	2,868,252	138,984
Alcohol, Drug Abuse & Mental Hlth Admin	201,001	98,256	79,647	23,098	488,720	290,429	656	164	178,774	18,697
Centers for Disease Control	-	-	-	-	95,600	-	-	-	95,600	-
Food & Drug Administration	-	-	-	-	99,000	48,510	-	-	50,490	-
Health Resources and Services Administration	-	-	-	-	11,856	-	-	-	11,856	-
National Institutes of Health	96,844	1,011	3,301	92,532	5,707,870	3,061,762	133	-	2,525,688	120,287
Office of Asst Secy for Health	-	-	-	-	5,844	-	-	-	5,844	-
Department of the Interior, total	-	-	-	-	82,860	52,189	28,586	2,005	-	80
Bureau of Land Management	-	-	-	-	2,000	-	100	1,900	-	-
Bureau of Reclamation	-	-	-	-	1,168	-	1,168	-	-	-
Geological Survey	-	-	-	-	1,283	589	589	105	-	-
National Park Service	-	-	-	-	15,980	800	15,100	-	-	80
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	429	-	429	-	-	-
US Fish & Wildlife Service	-	-	-	-	62,000	50,800	11,200	-	-	-
Department of Justice, total	678	-	678	-	852	250	206	179	-	217
Drug Enforcement Administration	-	-	-	-	179	-	-	179	-	-
Federal Prison System	400	-	400	-	-	-	-	-	-	-
Office of Justice Programs	278	-	278	-	673	250	206	-	-	217
Department of Transportation, total	-	-	-	-	2,000	2,000	-	-	-	-
Nat'l Highway Traffic Safety Admin	-	-	-	-	2,000	2,000	-	-	-	-
Department of the Treasury, total	236	-	-	236	242	-	-	-	242	-
Office of Protective Research	236	-	-	236	242	-	-	-	242	-
Department of Veterans Affairs	14,366	14,031	335	-	196,166	22,938	-	-	173,228	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	206,611	6,735	6,166	132,131	30,964	30,615
Environmental Protection Agency	1,176	1,176	-	-	137,202	73,746	32,330	12,242	18,884	-
National Aeronautics & Space Admin	10,808	85	7,915	2,808	140,333	48,127	7,953	584	52,075	31,594
National Science Foundation	10,927	4,448	6,465	14	262,470	185,907	75,729	-	-	834
Smithsonian Institution	-	-	-	-	30,350	14,153	16,197	-	-	-
Tennessee Valley Authority	-	-	-	-	6,069	-	-	6,069	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1991 ($mil.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	486,549	147,993	190,272	148,284	9,670,250	4,498,641	399,472	733,063	3,753,767	283,307
Departments										
Department of Agriculture, total	309	-	309	-	919,697	136,761	173,348	583,188	26,400	-
Agricultural Marketing Service 1/	-	-	-	-	2,512	-	-	2,512	-	-
Agricultural Research Service	-	-	-	-	491,200	27,861	49,303	403,256	10,780	-
Animal & Plant Health Inspection Svc	-	-	-	-	8,713	-	-	8,713	-	-
Cooperative State Research Service	-	-	-	-	299,579	67,353	60,619	155,987	15,620	-
Federal Grain Inspection Service	-	-	-	-	334	-	-	334	-	-
Forest Service	309	-	309	-	104,973	41,547	63,426	-	-	-
Human Nutrition Information Service	-	-	-	-	9,998	-	-	9,998	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	2,388	-	-	2,388	-	-
Department of Commerce, total	582	-	582	-	14,624	-	5,994	7,157	1,473	-
Bureau of the Census	434	-	434	-	-	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	148	-	148	-	14,624	-	5,994	7,157	1,473	-
Department of Defense, total	101,946	11,551	74,882	15,513	301,410	66,297	18,270	-	176,824	40,019
Department of the Army	36,438	893	33,293	2,252	153,984	8,901	921	-	144,162	-
Department of the Navy	31,773	10,658	18,185	2,930	44,897	19,712	4,414	-	19,120	1,651
Department of the Air Force	30,905	-	20,574	10,331	52,775	5,547	7,934	-	926	38,368
Defense agencies	2,830	-	2,830	-	49,754	32,137	5,001	-	12,616	-
Department of Education	5,027	201	2,715	2,111	19,271	3,519	-	-	9,917	5,835
Department of Energy	-	-	-	-	287,729	154,534	652	325	114,896	17,322
Dept of Hlth & Human Services, total	334,536	114,071	93,234	127,231	6,974,038	3,695,908	795	165	3,125,592	151,578
Alcohol, Drug Abuse & Mental Hlth Admin	229,721	112,955	89,680	27,086	556,459	328,125	659	165	206,062	21,448
Centers for Disease Control	-	-	-	-	109,600	-	-	-	109,600	-
Food & Drug Administration	-	-	-	-	110,000	53,920	-	-	56,080	-
Health Resources and Services Administration	-	-	-	-	10,746	-	-	-	10,746	-
National Institutes of Health	104,815	1,116	3,554	100,145	6,177,602	3,313,863	136	-	2,733,473	130,130
Office of Asst Secy for Health	-	-	-	-	9,631	-	-	-	9,631	-
Department of the Interior, total	-	-	-	-	96,173	45,819	48,380	1,874	-	100
Bureau of Land Management	-	-	-	-	2,719	400	600	1,719	-	-
Bureau of Reclamation	-	-	-	-	1,845	-	1,845	-	-	-
Geological Survey	-	-	-	-	1,909	719	1,035	155	-	-
National Park Service	-	-	-	-	19,600	800	18,700	-	-	100
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	300	-	300	-	-	-
US Fish & Wildlife Service	-	-	-	-	69,800	43,900	25,900	-	-	-
Department of Justice, total	700	300	400	-	100	-	100	-	-	-
Federal Prison System	400	-	400	-	-	-	-	-	-	-
Office of Justice Programs	300	300	-	-	100	-	100	-	-	-
Department of Transportation, total	527	-	527	-	924	924	-	-	-	-
Coast Guard	527	-	527	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	-	-	-	-	924	924	-	-	-	-
Department of the Treasury, total	243	-	-	243	250	-	-	-	250	-
Office of Protective Research	243	-	-	243	250	-	-	-	250	-
Department of Veterans Affairs	15,556	15,306	250	-	200,279	22,296	-	-	177,983	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	198,322	4,589	7,941	115,964	31,494	38,334
Environmental Protection Agency	952	952	-	-	152,179	87,143	29,553	15,972	19,511	-
National Aeronautics & Space Admin	13,176	96	9,909	3,171	178,206	64,442	14,601	659	69,427	29,077
National Science Foundation	12,995	5,516	7,464	15	281,647	200,311	80,294	-	-	1,042
Smithsonian Institution	-	-	-	-	35,642	16,098	19,544	-	-	-
Tennessee Valley Authority	-	-	-	-	9,759	-	-	9,759	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-24. Federal obligations for research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	522,332	157,851	203,546	160,935	10,229,939	4,858,371	396,133	788,022	3,925,062	262,351
Departments										
Department of Agriculture, total	301	-	301	-	954,959	151,211	163,814	623,020	16,914	-
Agricultural Marketing Service 1/	-	-	-	-	2,671	-	-	2,671	-	-
Agricultural Research Service	-	-	-	-	519,854	29,486	52,178	426,782	11,408	-
Animal & Plant Health Inspection Svc	-	-	-	-	9,184	-	-	9,184	-	-
Cooperative State Research Service	-	-	-	-	306,651	81,276	49,885	169,984	5,506	-
Federal Grain Inspection Service	-	-	-	-	334	-	-	334	-	-
Forest Service	301	-	301	-	102,200	40,449	61,751	-	-	-
Human Nutrition Information Service	-	-	-	-	12,654	-	-	12,654	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	1,411	-	-	1,411	-	-
Department of Commerce, total	626	-	626	-	10,527	-	2,416	7,146	965	-
Bureau of the Census	488	-	488	-	-	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	138	-	138	-	10,527	-	2,416	7,146	965	-
Department of Defense, total	107,610	12,886	77,216	17,508	309,475	63,245	22,455	1,028	221,180	1,567
Department of the Army	35,139	936	31,708	2,495	147,338	9,468	874	-	136,996	-
Department of the Navy	34,044	11,173	19,804	3,067	48,487	21,841	4,648	-	20,431	1,567
Department of the Air Force	37,650	-	25,704	11,946	65,844	6,938	9,553	1,028	48,325	-
Defense agencies	777	777	-	-	47,806	24,998	7,380	-	15,428	-
Department of Education	5,357	214	2,893	2,250	19,834	3,643	-	-	10,265	5,926
Department of Energy	-	-	-	-	220,417	167,554	710	375	33,943	17,835
Dept of Hlth & Human Services, total	357,346	122,176	98,233	136,937	7,465,170	3,962,527	788	161	3,339,749	161,945
Alcohol, Drug Abuse & Mental Hlth Admin	245,144	120,983	94,434	29,727	595,444	350,557	643	161	221,465	22,618
Centers for Disease Control	-	-	-	-	113,300	-	-	-	113,300	-
Food & Drug Administration	-	-	-	-	125,300	61,397	-	-	63,903	-
Health Resources and Services Administration	-	-	-	-	10,898	-	-	-	10,898	-
National Institutes of Health	112,202	1,193	3,799	107,210	6,617,928	3,550,573	145	-	2,927,883	139,327
Office of Asst Secy for Health	-	-	-	-	2,300	-	-	-	2,300	-
Department of the Interior, total	-	-	-	-	98,039	57,151	37,256	3,532	-	100
Bureau of Land Management	-	-	-	-	4,739	500	1,000	3,239	-	-
Bureau of Reclamation	-	-	-	-	1,405	-	1,405	-	-	-
Geological Survey	-	-	-	-	2,195	751	1,151	293	-	-
National Park Service	-	-	-	-	22,500	1,000	21,400	-	-	100
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	900	-	900	-	-	-
US Fish & Wildlife Service	-	-	-	-	66,300	54,900	11,400	-	-	-
Department of Justice, total	1,925	-	1,525	400	300	100	200	-	-	-
Drug Enforcement Administration	325	-	325	-	-	-	-	-	-	-
Federal Prison System	400	-	400	-	-	-	-	-	-	-
Office of Justice Programs	1,200	-	800	400	300	100	200	-	-	-
Department of Transportation, total	702	-	702	-	1,097	1,097	-	-	-	-
Coast Guard	702	-	702	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	-	-	-	-	1,097	1,097	-	-	-	-
Department of the Treasury, total	255	-	-	255	250	-	-	-	250	-
Office of Protective Research	255	-	-	255	250	-	-	-	250	-
Department of Veterans Affairs	15,550	15,300	250	-	177,950	21,576	-	-	156,374	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	205,632	1,874	7,485	127,242	32,996	36,035
Environmental Protection Agency	1,002	1,002	-	-	167,058	93,866	33,532	18,269	21,391	-
National Aeronautics & Space Admin	17,160	108	13,484	3,568	236,871	89,932	17,410	742	91,035	37,752
National Science Foundation	14,498	6,165	8,316	17	317,144	226,807	89,146	-	-	1,191
Smithsonian Institution	-	-	-	-	38,709	17,788	20,921	-	-	-
Tennessee Valley Authority	-	-	-	-	6,507	-	-	6,507	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-25. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	3,808,723	597,154	761,675	2,254,935	194,959	2,174,084	773,394	661,114	520,125	219,451
Departments										
Department of Agriculture, total	71,924	-	67,767	4,157	-	13,014	4,321	8,693	-	-
Agricultural Research Service	45,177	-	43,127	2,050	-	1,892	1,643	249	-	-
Cooperative State Research Service	15,612	-	15,612	-	-	771	771	-	-	-
Forest Service	11,135	-	9,028	2,107	-	10,351	1,907	8,444	-	-
Department of Commerce, total	65,188	436	25,006	39,671	75	217,380	56,694	5,066	152,814	2,806
Nat'l Institute of Standards & Tech	51,476	436	18,350	32,615	75	232	-	232	-	-
Nat'l Oceanic & Atmospheric Admin	13,712	-	6,656	7,056	-	217,148	56,694	4,834	152,814	2,806
Department of Defense, total	498,247	11,719	120,991	310,035	55,502	279,894	102,069	95,735	75,496	6,594
Department of the Army	100,084	-	50,449	21,236	28,399	24,439	13,993	4,011	404	6,031
Department of the Navy	122,647	5,663	26,512	85,607	4,865	113,847	17,001	28,618	67,665	563
Department of the Air Force	113,139	6,056	41,230	62,178	3,675	59,263	50,183	9,080	-	-
Defense agencies	162,377	-	2,800	141,014	18,563	82,345	20,892	54,026	7,427	-
Department of Energy	1,577,130	-	189,183	1,376,074	11,873	278,595	64,653	99,825	5,990	108,127
Dept of Hlth & Human Services, total	129,193	-	112,170	16,874	149	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	9,926	-	9,926	-	-	-	-	-	-	-
National Institutes of Health	119,267	-	102,244	16,874	149	-	-	-	-	-
Dept of Housing & Urban Development	172	-	172	-	-	-	-	-	-	-
Department of the Interior, total	28,722	-	22,922	4,458	1,342	260,951	210	225,157	26,450	9,134
Bureau of Land Management	-	-	-	-	-	100	100	-	-	-
Bureau of Mines	-	-	-	-	-	12,778	-	4,811	-	7,967
Bureau of Reclamation	1,203	-	46	-	1,157	267	110	144	-	13
Geological Survey	27,334	-	22,876	4,458	-	245,952	-	219,502	26,450	-
National Park Service	-	-	-	-	-	1,854	-	700	-	1,154
Off of Surface Mining Reclamation & Enforcement	185	-	-	-	185	-	-	-	-	-
Department of Justice, total	377	-	-	-	377	-	-	-	-	-
Office of Justice Programs	377	-	-	-	377	-	-	-	-	-
Department of Transportation, total	9,143	-	7,797	746	600	4,820	-	4,750	70	-
Coast Guard	170	-	170	-	-	-	-	-	-	-
Federal Highway Administration	8,373	-	7,627	746	-	4,750	-	4,750	-	-
Maritime Administration	-	-	-	-	-	70	-	-	70	-
Office of the Secretary	600	-	-	-	600	-	-	-	-	-
Department of the Treasury, total	1,764	-	736	418	610	-	-	-	-	-
Bureau of Engraving and Printing	1,364	-	736	18	610	-	-	-	-	-
United States Customs Service	400	-	-	400	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	-	419	-	-	-	419
Consumer Product Safety Commission	279	-	279	-	-	-	-	-	-	-
Environmental Protection Agency	41,017	-	37,070	3,947	-	65,591	56,754	5,770	3,067	-
National Aeronautics & Space Admin	890,205	462,320	35,908	308,311	83,666	607,642	359,563	102,906	66,116	79,057
National Archives & Records Admin	230	-	60	170	-	-	-	-	-	-
National Science Foundation	468,670	104,613	133,218	190,074	40,765	438,442	128,349	108,487	188,292	13,314
Smithsonian Institution	18,066	18,066	-	-	-	6,599	44	4,725	1,830	-
Tennessee Valley Authority	8,396	-	8,396	-	-	737	737	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-26. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	4,122,648	657,233	833,739	2,423,202	208,474	2,449,805	881,603	750,728	586,307	231,167
Departments										
Department of Agriculture, total	79,774	-	75,378	4,396	-	14,994	5,747	9,247	-	-
Agricultural Research Service	50,107	-	47,941	2,166	-	3,230	2,921	309	-	-
Cooperative State Research Service	17,881	-	17,881	-	-	807	807	-	-	-
Forest Service	11,786	-	9,556	2,230	-	10,957	2,019	8,938	-	-
Department of Commerce, total	71,996	383	27,228	44,340	45	255,463	66,558	5,986	180,051	2,868
Nat'l Institute of Standards & Tech	56,084	383	19,472	36,184	45	356	-	356	-	-
Nat'l Oceanic & Atmospheric Admin	15,912	-	7,756	8,156	-	255,107	66,558	5,630	180,051	2,868
Department of Defense, total	492,689	12,856	118,431	304,311	57,091	295,059	98,430	82,284	87,091	27,254
Department of the Army	89,320	-	42,952	16,105	30,263	23,749	12,624	3,694	397	7,034
Department of the Navy	134,526	6,519	29,183	93,786	5,038	126,298	18,325	32,491	74,884	598
Department of the Air Force	107,812	6,337	39,992	58,299	3,184	54,668	45,342	9,326	-	-
Defense agencies	161,031	-	6,304	136,121	18,606	90,344	22,139	36,773	11,810	19,622
Department of Energy	1,753,863	-	214,399	1,520,921	18,543	315,331	77,803	115,821	4,791	116,916
Dept of Hlth & Human Services, total	140,824	-	122,387	18,253	184	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	11,684	-	11,684	-	-	-	-	-	-	-
National Institutes of Health	129,140	-	110,703	18,253	184	-	-	-	-	-
Dept of Housing & Urban Development	-	-	-	-	-	202	-	-	-	202
Department of the Interior, total	35,463	-	28,290	5,506	1,667	299,362	1,095	258,634	27,302	12,331
Bureau of Land Management	-	-	-	-	-	1,000	300	-	-	700
Bureau of Mines	-	-	-	-	-	17,013	-	6,082	-	10,931
Bureau of Reclamation	1,787	-	120	-	1,667	290	195	95	-	-
Geological Survey	33,676	-	28,170	5,506	-	278,189	600	250,287	27,302	-
National Park Service	-	-	-	-	-	2,200	-	1,500	-	700
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	-	670	-	670	-	-
Department of Justice, total	75	-	-	-	75	-	-	-	-	-
Office of Justice Programs	75	-	-	-	75	-	-	-	-	-
Department of Transportation, total	8,832	-	6,759	1,873	200	4,451	263	3,320	801	67
Coast Guard	-	-	-	-	-	801	-	-	801	-
Federal Highway Administration	7,474	-	6,759	715	-	3,650	263	3,320	-	67
Federal Railroad Administration	1,158	-	-	1,158	-	-	-	-	-	-
Office of the Secretary	200	-	-	-	200	-	-	-	-	-
Department of the Treasury, total	3,155	-	1,394	660	1,101	-	-	-	-	-
Bureau of Engraving and Printing	2,645	-	1,394	150	1,101	-	-	-	-	-
United States Customs Service	510	-	-	510	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	-	663	-	-	-	663
Consumer Product Safety Commission	178	-	178	-	-	-	-	-	-	-
Environmental Protection Agency	49,241	-	44,667	4,574	-	62,657	55,468	5,067	2,122	-
National Aeronautics & Space Admin	946,336	501,791	41,304	317,107	86,134	700,237	433,100	139,704	71,299	56,134
National Archives & Records Admin	541	-	266	275	-	-	-	-	-	-
National Science Foundation	502,670	117,365	140,885	200,986	43,434	493,568	142,337	125,614	210,885	14,732
Smithsonian Institution	24,838	24,838	-	-	-	7,068	52	5,051	1,965	-
Tennessee Valley Authority	12,028	-	12,028	-	-	750	750	-	-	-
US Arms Control & Disarmament Agency	145	-	145	-	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-27. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	4,523,475	741,508	872,085	2,609,927	299,955	2,627,128	990,033	749,781	617,418	269,896
Departments										
Department of Agriculture, total	82,804	-	78,340	4,464	-	14,908	5,879	9,029	-	-
Agricultural Research Service	53,031	-	50,738	2,293	-	3,419	3,092	327	-	-
Cooperative State Research Service	18,298	-	18,298	-	-	822	822	-	-	-
Forest Service	11,475	-	9,304	2,171	-	10,667	1,965	8,702	-	-
Department of Commerce, total	73,740	397	26,877	46,417	49	260,883	83,473	2,494	171,968	2,948
Nat'l Institute of Standards & Tech	60,428	397	20,921	39,061	49	478	-	364	-	114
Nat'l Oceanic & Atmospheric Admin	13,312	-	5,956	7,356	-	260,405	83,473	2,130	171,968	2,834
Department of Defense, total	649,605	14,480	132,320	402,388	100,417	300,712	115,035	82,144	85,214	18,319
Department of the Army	130,282	-	51,718	22,818	55,746	35,656	13,662	3,916	387	17,691
Department of the Navy	143,045	6,657	30,502	100,394	5,492	131,806	19,753	35,066	76,359	628
Department of the Air Force	128,387	7,765	46,865	70,223	3,534	67,826	56,551	11,275	-	-
Defense agencies	247,891	58	3,235	208,953	35,645	65,424	25,069	31,887	8,468	-
Department of Energy	1,791,790	-	182,209	1,588,641	20,940	344,934	87,476	83,498	5,812	168,148
Dept of Hlth & Human Services, total	151,479	-	131,708	19,575	196	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	12,885	-	12,885	-	-	-	-	-	-	-
National Institutes of Health	138,594	-	118,823	19,575	196	-	-	-	-	-
Dept of Housing & Urban Development	-	-	-	-	-	151	-	-	-	151
Department of the Interior, total	38,748	-	28,481	5,467	4,800	280,492	1,855	239,854	28,547	10,236
Bureau of Land Management	-	-	-	-	-	3,000	500	-	-	2,500
Bureau of Mines	-	-	-	-	-	11,212	-	4,176	-	7,036
Bureau of Reclamation	4,965	-	165	-	4,800	380	255	125	-	-
Geological Survey	33,783	-	28,316	5,467	-	261,600	1,100	231,953	28,547	-
National Park Service	-	-	-	-	-	2,700	-	2,000	-	700
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	-	1,600	-	1,600	-	-
Department of Justice, total	-	-	-	-	-	125	-	-	-	125
Drug Enforcement Administration	-	-	-	-	-	125	-	-	-	125
Department of Transportation, total	7,825	-	5,254	2,271	300	4,075	203	2,580	940	352
Coast Guard	-	-	-	-	-	940	-	-	940	-
Federal Highway Administration	5,811	-	5,254	557	-	2,635	203	2,580	-	52
Federal Railroad Administration	1,714	-	-	1,714	-	-	-	-	-	-
Maritime Administration	-	-	-	-	-	300	-	-	-	300
Office of the Secretary	300	-	-	-	300	-	-	-	-	-
Department of the Treasury, total	3,656	-	928	950	1,778	-	-	-	-	-
Bureau of Engraving and Printing	3,006	-	928	300	1,778	-	-	-	-	-
United States Customs Service	650	-	-	650	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	-	610	-	-	-	610
Consumer Product Safety Commission	115	-	115	-	-	-	-	-	-	-
Environmental Protection Agency	68,096	-	63,018	5,078	-	71,254	61,643	6,125	3,486	-
National Aeronautics & Space Admin	1,057,209	574,159	57,898	308,978	116,174	780,882	469,333	179,684	80,244	51,621
National Archives & Records Admin	460	-	60	400	-	-	-	-	-	-
National Science Foundation	559,882	123,345	155,988	225,248	55,301	559,525	164,234	138,847	239,058	17,386
Smithsonian Institution	29,127	29,127	-	-	-	7,759	84	5,526	2,149	-
Tennessee Valley Authority	7,989	-	7,989	-	-	818	818	-	-	-
US Arms Control & Disarmament Agency	950	-	900	50	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-28. Federal obligations for research in engineering, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	4,335,171	927,099	580,782	241,853	317,465	640,043	268,331	554,508	805,090
Departments									
Department of Agriculture, total	38,885	-	-	7,291	6,129	389	4,304	-	20,772
Agricultural Research Service	6,854	-	-	4,030	1,792	327	705	-	-
Cooperative State Research Service	16,758	-	-	-	-	-	-	-	16,758
Forest Service	15,273	-	-	3,261	4,337	62	3,599	-	4,014
Department of Commerce, total	56,835	-	-	3,852	5,860	12,375	1,496	11,834	21,418
Nat'l Institute of Standards & Tech	50,009	-	-	3,852	4,870	7,946	1,496	11,834	20,011
Nat'l Oceanic & Atmospheric Admin	3,856	-	-	-	990	1,459	-	-	1,407
Nat'l Telecomm & Information Admin	2,970	-	-	-	-	2,970	-	-	-
Department of Defense, total	1,762,244	237,616	79,950	37,392	163,946	535,067	182,648	370,532	155,093
Department of the Army	376,971	43,369	2,612	24,040	39,574	113,995	82,193	27,347	43,841
Department of the Navy	408,786	42,826	15,076	11,531	13,002	150,742	77,680	59,739	38,190
Department of the Air Force	466,715	146,950	61,336	1,821	6,734	172,621	21,631	42,643	12,979
Defense agencies	509,772	4,471	926	-	104,636	97,709	1,144	240,803	60,083
Department of Education	4,959	-	-	-	-	-	-	-	4,959
Department of Energy	435,646	-	-	105,874	26,570	21,118	17,697	78,454	185,933
Dept of Hlth & Human Services, total	68,918	-	-	-	-	-	-	-	68,918
Alcohol, Drug Abuse & Mental Hlth Admin	806	-	-	-	-	-	-	-	806
National Institutes of Health	68,112	-	-	-	-	-	-	-	68,112
Dept of Housing & Urban Development	91	-	-	-	-	-	-	-	91
Department of the Interior, total	88,419	-	-	5,823	3,255	710	744	25,089	52,798
Bureau of Mines	77,134	-	-	-	-	-	-	25,041	52,093
Bureau of Reclamation	2,589	-	-	46	1,308	540	131	35	529
Geological Survey	6,841	-	-	4,716	1,600	170	355	-	-
Minerals Management Service	1,855	-	-	1,061	347	-	258	13	176
Department of Justice, total	575	-	-	-	-	200	200	-	175
Drug Enforcement Administration	175	-	-	-	-	-	-	-	175
Immigration & Naturalization Svc	400	-	-	-	-	200	200	-	-
Department of Transportation, total	91,885	4,180	1,676	6,976	57,276	5,258	11,938	169	4,412
Coast Guard	2,785	-	-	-	1,945	540	300	-	-
Federal Aviation Administration	26,125	4,180	1,306	-	17,243	3,396	-	-	-
Federal Highway Administration	40,455	-	-	6,553	32,951	475	-	-	476
Federal Railroad Administration	8,126	-	-	423	4,317	847	2,116	169	254
Maritime Administration	820	-	-	-	820	-	-	-	-
Nat'l Highway Traffic Safety Admin	10,273	-	-	-	-	-	9,522	-	751
Office of the Secretary	920	-	370	-	-	-	-	-	550
Research & Special Programs Admin	2,381	-	-	-	-	-	-	-	2,381
Department of Veterans Affairs	5,068	-	-	-	-	-	-	-	5,068
Other agencies									
Agency for Internat'l Development	4,324	-	-	-	1,874	2,204	-	-	246
Consumer Product Safety Commission	161	-	-	-	-	-	-	-	161
Environmental Protection Agency	61,489	-	-	24,450	20,868	450	3,947	741	11,033
Federal Communications Commission	851	-	-	-	-	851	-	-	-
General Services Administration	665	-	-	-	665	-	-	-	-
National Aeronautics & Space Admin	1,324,603	684,654	499,156	14,259	151	11,544	15,775	59,848	39,216
National Science Foundation	171,579	649	-	35,936	30,871	49,427	29,582	7,841	17,273
Nuclear Regulatory Commission	217,524	-	-	-	-	-	-	-	217,524
United States Information Agency	450	-	-	-	-	450	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-29. Federal obligations for research in engineering, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	4,923,513	1,054,351	620,233	273,414	344,265	666,073	295,485	685,385	984,307
Departments									
Department of Agriculture, total	41,223	-	-	7,763	6,301	466	4,361	-	22,332
Agricultural Research Service	6,973	-	-	4,312	1,710	400	551	-	-
Cooperative State Research Service	18,083	-	-	-	-	-	-	-	18,083
Forest Service	16,167	-	-	3,451	4,591	66	3,810	-	4,249
Department of Commerce, total	70,813	-	-	3,991	4,760	26,770	2,047	13,646	19,599
Nat'l Institute of Standards & Tech	63,570	-	-	3,991	4,185	21,526	2,047	13,646	18,175
Nat'l Oceanic & Atmospheric Admin	3,458	-	-	-	575	1,459	-	-	1,424
Nat'l Telecomm & Information Admin	3,785	-	-	-	-	3,785	-	-	-
Department of Defense, total	1,972,193	236,018	74,550	32,360	172,686	531,931	188,650	487,818	248,180
Department of the Army	388,529	40,006	2,238	18,721	42,913	142,190	82,030	27,243	33,188
Department of the Navy	443,849	45,849	16,408	10,305	13,411	164,955	86,682	62,500	43,739
Department of the Air Force	419,032	141,626	54,114	3,334	7,940	148,162	17,810	38,636	7,410
Defense agencies	720,783	8,537	1,790	-	108,422	76,624	2,128	359,439	163,843
Department of Education	5,484	-	-	-	-	-	-	-	5,484
Department of Energy	528,325	-	-	138,721	31,656	24,512	20,506	78,140	234,790
Dept of Hlth & Human Services, total	74,705	-	-	-	-	-	-	-	74,705
Alcohol, Drug Abuse & Mental Hlth Admin	966	-	-	-	-	-	-	-	966
National Institutes of Health	73,739	-	-	-	-	-	-	-	73,739
Dept of Housing & Urban Development	349	-	-	-	-	-	-	-	349
Department of the Interior, total	100,844	-	-	6,949	4,068	740	1,215	27,623	60,249
Bureau of Mines	86,399	-	-	-	-	-	-	27,561	58,838
Bureau of Reclamation	3,878	-	-	-	1,823	560	250	50	1,195
Geological Survey	7,985	-	-	5,755	1,700	180	350	-	-
Minerals Management Service	2,582	-	-	1,194	545	-	615	12	216
Department of Justice, total	745	-	-	-	-	200	200	-	345
Drug Enforcement Administration	345	-	-	-	-	-	-	-	345
Immigration & Naturalization Svc	400	-	-	-	-	200	200	-	-
Department of Transportation, total	117,815	4,342	2,021	6,755	69,758	8,154	21,961	888	3,936
Coast Guard	3,215	-	-	-	560	1,400	500	-	755
Federal Aviation Administration	28,013	4,342	1,821	-	18,068	3,782	-	-	-
Federal Highway Administration	51,710	-	-	6,177	44,731	80	220	502	-
Federal Railroad Administration	16,197	-	-	578	5,399	2,892	6,171	386	771
Maritime Administration	1,000	-	-	-	1,000	-	-	-	-
Nat'l Highway Traffic Safety Admin	15,070	-	-	-	-	-	15,070	-	-
Office of the Secretary	350	-	200	-	-	-	-	-	150
Research & Special Programs Admin	2,260	-	-	-	-	-	-	-	2,260
Department of the Treasury, total	450	-	-	-	-	150	300	-	-
Bureau of Engraving and Printing	450	-	-	-	-	150	300	-	-
Department of Veterans Affairs	5,065	-	-	-	-	-	-	-	5,065
Other agencies									
Agency for Internat'l Development	2,551	-	-	-	2,338	-	-	-	213
Consumer Product Safety Commission	924	-	-	-	-	-	-	-	924
Environmental Protection Agency	64,952	-	-	24,953	19,445	438	4,660	484	14,972
Federal Communications Commission	1,062	-	-	-	-	1,062	-	-	-
National Aeronautics & Space Admin	1,519,187	813,297	543,662	13,427	170	15,353	19,897	68,410	44,971
National Science Foundation	186,348	694	-	38,495	33,083	55,897	31,688	8,376	18,615
Nuclear Regulatory Commission	229,578	-	-	-	-	-	-	-	229,578
United States Information Agency	400	-	-	-	-	400	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-30. Federal obligations for research in engineering, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	5,357,324	1,185,370	940,310	217,781	359,709	682,216	330,540	591,937	1,051,461
Departments									
Department of Agriculture, total	36,795	-	-	7,925	6,279	487	4,292	-	17,812
Agricultural Research Service	7,380	-	-	4,564	1,810	423	583	-	-
Cooperative State Research Service	13,675	-	-	-	-	-	-	-	13,675
Forest Service	15,740	-	-	3,361	4,469	64	3,709	-	4,137
Department of Commerce, total	76,027	-	-	4,232	4,999	29,827	3,559	13,646	19,764
Nat'l Institute of Standards & Tech	68,866	-	-	4,232	3,987	24,583	3,559	13,646	18,859
Nat'l Oceanic & Atmospheric Admin	3,376	-	-	-	1,012	1,459	-	-	905
Nat'l Telecomm & Information Admin	3,785	-	-	-	-	3,785	-	-	-
Department of Defense, total	1,963,098	265,214	86,976	31,193	184,027	522,297	214,650	386,578	272,163
Department of the Army	415,786	48,673	1,966	15,990	51,573	148,798	94,495	27,951	26,340
Department of the Navy	478,394	48,217	17,537	11,208	14,504	177,610	93,323	68,286	47,709
Department of the Air Force	494,737	162,698	65,803	3,702	9,802	175,222	23,586	45,699	8,225
Defense agencies	574,181	5,626	1,670	293	108,148	20,667	3,246	244,642	189,889
Department of Education	5,844	-	-	-	-	-	-	-	5,844
Department of Energy	488,620	-	-	69,221	40,529	30,836	18,425	73,074	256,535
Dept of Hlth & Human Services, total	80,079	-	-	-	-	-	-	-	80,079
Alcohol, Drug Abuse & Mental Hlth Admin	1,042	-	-	-	-	-	-	-	1,042
National Institutes of Health	79,037	-	-	-	-	-	-	-	79,037
Dept of Housing & Urban Development	320	-	-	-	-	-	-	-	320
Department of the Interior, total	83,730	-	-	9,726	4,061	1,145	1,685	25,780	41,333
Bureau of Mines	65,540	-	-	-	-	-	-	25,719	39,821
Bureau of Reclamation	3,850	-	-	150	1,117	945	318	50	1,270
Geological Survey	8,204	-	-	6,004	1,700	200	300	-	-
Minerals Management Service	5,714	-	-	3,361	1,033	-	1,067	11	242
Off of Surface Mining Reclamation & Enforcement	422	-	-	211	211	-	-	-	-
Department of Justice, total	745	-	-	-	-	200	200	-	345
Drug Enforcement Administration	345	-	-	-	-	-	-	-	345
Immigration & Naturalization Svc	400	-	-	-	-	200	200	-	-
Department of Transportation, total	108,322	3,869	1,748	6,218	57,824	8,108	24,241	1,033	5,281
Coast Guard	3,658	-	-	-	650	1,650	658	-	700
Federal Aviation Administration	25,793	3,869	1,548	-	16,765	3,611	-	-	-
Federal Highway Administration	40,195	-	-	6,004	33,567	62	172	390	-
Federal Railroad Administration	17,140	-	-	214	5,142	2,785	6,856	643	1,500
Maritime Administration	1,700	-	-	-	1,700	-	-	-	-
Nat'l Highway Traffic Safety Admin	16,555	-	-	-	-	-	16,555	-	-
Office of the Secretary	437	-	200	-	-	-	-	-	237
Research & Special Programs Admin	2,844	-	-	-	-	-	-	-	2,844
Department of the Treasury, total	300	-	-	-	-	-	300	-	-
Bureau of Engraving and Printing	300	-	-	-	-	-	300	-	-
Department of Veterans Affairs	5,000	-	-	-	-	-	-	-	5,000
Other agencies									
Agency for Internat'l Development	2,924	-	-	-	1,930	690	-	-	304
Consumer Product Safety Commission	920	-	-	-	-	-	-	-	920
Environmental Protection Agency	72,588	-	-	28,445	21,683	436	5,233	628	16,163
Federal Communications Commission	1,100	-	-	-	-	1,100	-	-	-
National Aeronautics & Space Admin	1,960,667	915,487	851,586	16,374	192	17,063	21,321	81,543	57,098
National Science Foundation	220,577	800	-	44,447	38,185	69,377	36,634	9,655	21,462
Nuclear Regulatory Commission	250,938	-	-	-	-	-	-	-	250,938
US Arms Control & Disarmament Agency	100	-	-	-	-	-	-	-	100
United States Information Agency	650	-	-	-	-	650	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-31. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	840,737	241,339	562,128	37,270	629,990	14,386	197,161	13,146	116,159	289,138
Departments										
Department of Agriculture, total	12,004	10,642	1,362	-	101,055	-	90,777	511	8,833	934
Agricultural Cooperative Service	-	-	-	-	2,721	-	2,721	-	-	-
Agricultural Research Service	1,513	151	1,362	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	37,926	-	30,776	-	7,150	-
Economic Research Service	-	-	-	-	50,534	-	48,791	172	637	934
Forest Service	7,705	7,705	-	-	9,874	-	8,489	339	1,046	-
Nat'l Agricultural Statistics Svc	2,786	2,786	-	-	-	-	-	-	-	-
Department of Commerce, total	15,222	6,993	4,967	3,262	3,226	-	2,333	624	-	269
Bureau of the Census	3,573	3,402	171	-	529	-	288	241	-	-
Economic Development Administration	-	-	-	-	1,188	-	1,188	-	-	-
Nat'l Institute of Standards & Tech	9,808	2,932	3,614	3,262	230	-	230	-	-	-
Nat'l Oceanic & Atmospheric Admin	1,818	659	1,159	-	1,279	-	627	383	-	269
Nat'l Telecomm & Information Admin	23	-	23	-	-	-	-	-	-	-
Department of Defense, total	445,319	62,590	355,210	27,519	1,760	-	1,056	-	704	-
Department of the Army	65,425	8,517	50,815	6,093	1,760	-	1,056	-	704	-
Department of the Navy	80,639	23,613	46,204	10,822	-	-	-	-	-	-
Department of the Air Force	46,615	19,105	27,510	-	-	-	-	-	-	-
Defense agencies	252,640	11,355	230,681	10,604	-	-	-	-	-	-
Department of Education	805	-	-	805	99,934	-	-	-	1,253	98,681
Department of Energy	53,523	30,714	22,809	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	18,875	17,576	1,299	-	215,286	1,539	13,147	2,690	91,148	106,762
Administration for Children and Families 1/	-	-	-	-	7,728	-	-	-	-	7,728
Agency for Health Care Policy & Research 2/	-	-	-	-	44,200	-	4,862	-	39,338	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,807	994	813	-	75,006	1,539	5,485	2,457	50,177	15,348
Health Care Financing Admin	-	-	-	-	49,111	-	-	-	-	49,111
National Institutes of Health	16,768	16,582	186	-	22,785	-	-	-	-	22,785
Office of the Secretary	300	-	300	-	4,666	-	2,800	233	1,633	-
Social Security Administration	-	-	-	-	11,790	-	-	-	-	11,790
Dept of Housing & Urban Development	61	-	61	-	5,998	-	5,973	-	4	21
Department of the Interior, total	12,032	1,884	10,148	-	2,131	1,021	95	-	1,015	-
Geological Survey	11,838	1,884	9,954	-	-	-	-	-	-	-
National Park Service	122	-	122	-	2,131	1,021	95	-	1,015	-
Off of Surface Mining Reclamation & Enforcement	72	-	72	-	-	-	-	-	-	-
Department of Justice, total	90	75	15	-	14,556	300	600	1,440	4,500	7 716
Federal Prison System	-	-	-	-	1,400	50	50	-	1,000	300
Office of Justice Programs	90	75	15	-	13,156	250	550	1,440	3,500	7,416

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-31. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Department of Labor, total	-	-	-	-	21,633	-	21,633	-	-	-
Bureau of Labor Statistics	-	-	-	-	7,300	-	7,300	-	-	-
Employment Standards Administration	-	-	-	-	53	-	53	-	-	-
Employment and Training Admin	-	-	-	-	6,006	-	6,006	-	-	-
Occupational Safety & Health Admin	-	-	-	-	2,526	-	2,526	-	-	-
Office of the Secretary	-	-	-	-	3,338	-	3,338	-	-	-
Pension Benefit Guaranty Corporation	-	-	-	-	300	-	300	-	-	-
Pension & Welfare Benefits Admin	-	-	-	-	2,110	-	2,110	-	-	-
Department of State	-	-	-	-	4,692	234	1,173	938	470	1,877
Department of Transportation, total	7,262	472	3,217	3,573	3,835	-	965	-	2,870	-
Coast Guard	1,450	-	1,450	-	653	-	-	-	653	-
Federal Highway Administration	3,362	472	1,757	1,133	477	-	477	-	-	-
Federal Railroad Administration	-	-	-	-	338	-	338	-	-	-
Maritime Administration	10	-	10	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	2,440	-	-	2,440	2,217	-	-	-	2,217	-
Office of the Secretary	-	-	-	-	150	-	150	-	-	-
Department of the Treasury, total	10,504	8,928	1,576	-	5,960	-	3,874	-	-	2,086
Internal Revenue Service	10,504	8,928	1,576	-	5,960	-	3,874	-	-	2,086
Other agencies										
Advisory Comm on Intergov'tl Relations	-	-	-	-	1,513	-	756	757	-	-
Agency for Internat'l Development	2,840	-	2,820	20	55,550	-	26,908	1,902	635	26,105
Environmental Protection Agency	4,268	35	4,233	-	219	-	-	219	-	-
Federal Communications Commission	70	-	70	-	408	-	368	-	-	40
Federal Trade Commission	-	-	-	-	459	-	459	-	-	-
International Trade Commission	-	-	-	-	9,065	-	9,065	-	-	-
National Aeronautics & Space Admin	70,845	23,573	45,216	2,056	84	-	-	-	74	10
National Archives & Records Admin	25	25	-	-	-	-	-	-	-	-
National Science Foundation	186,924	77,832	109,092	-	49,225	8,197	13,700	3,915	4,653	18,760
Office of Thrift Supervision 3/	-	-	-	-	4,126	-	4,126	-	-	-
Smithsonian Institution	-	-	-	-	28,972	3,095	-	-	-	25,877
Tennessee Valley Authority	-	-	-	-	153	-	153	-	-	-
US Arms Control & Disarmament Agency	68	-	33	35	150	-	-	150	-	-

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-32. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	945,594	265,143	639,519	40,932	772,186	15,803	206,028	14,582	167,148	368,625
Departments										
Department of Agriculture, total	12,717	11,240	1,477	-	108,094	-	97,220	543	9,324	1,007
Agricultural Cooperative Service	-	-	-	-	2,870	-	2,870	-	-	-
Agricultural Research Service	1,641	164	1,477	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	40,372	-	32,840	-	7,532	-
Economic Research Service	-	-	-	-	54,400	-	52,523	185	685	1,007
Forest Service	8,156	8,156	-	-	10,452	-	8,987	358	1,107	-
Nat'l Agricultural Statistics Svc	2,920	2,920	-	-	-	-	-	-	-	-
Department of Commerce, total	24,484	6,083	14,697	3,704	3,227	-	2,348	634	-	245
Bureau of the Census	2,491	2,289	202	-	625	-	341	284	-	-
Economic Development Administration	-	-	-	-	1,190	-	1,190	-	-	-
Nat'l Institute of Standards & Tech	20,175	3,135	13,336	3,704	175	-	175	-	-	-
Nat'l Oceanic & Atmospheric Admin	1,818	659	1,159	-	1,237	-	642	350	-	245
Department of Defense, total	490,430	71,780	387,346	31,304	11,586	-	952	-	634	10,000
Department of the Army	67,471	9,666	48,881	8,924	1,586	-	952	-	634	-
Department of the Navy	87,631	25,887	49,968	11,776	-	-	-	-	-	-
Department of the Air Force	47,323	19,873	23,687	3,763	-	-	-	-	-	-
Defense agencies	288,005	16,354	264,810	6,841	10,000	-	-	-	-	10,000
Department of Education	914	-	-	914	125,678	-	-	-	1,315	124,363
Department of Energy	63,984	30,725	33,259	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	20,638	19,124	1,514	-	302,465	1,596	20,386	3,320	137,398	139,765
Administration for Children and Families 1/	-	-	-	-	8,944	-	-	-	-	8,944
Agency for Health Care Policy & Research 2/	-	-	-	-	87,200	-	9,592	-	77,608	-
Alcohol, Drug Abuse & Mental Hlth Admin	2,101	1,191	910	-	84,245	1,596	5,677	2,894	56,805	17,273
Health Care Financing Admin	-	-	-	-	69,778	-	-	-	-	69,778
National Institutes of Health	18,137	17,933	204	-	24,662	-	-	-	-	24,662
Office of the Secretary	400	-	400	-	8,528	-	5,117	426	2,985	-
Social Security Administration	-	-	-	-	19,108	-	-	-	-	19,108
Dept of Housing & Urban Development	193	-	193	-	8,184	-	7,643	-	358	183
Department of the Interior, total	13,906	2,531	11,375	-	3,550	1,200	-	-	1,100	1,250
Geological Survey	13,706	2,531	11,175	-	350	-	-	-	-	350
National Park Service	200	-	200	-	3,200	1,200	-	-	1,100	900
Department of Justice, total	300	300	-	-	17,244	200	250	1,075	6,510	9,209
Federal Prison System	-	-	-	-	1,400	50	50	-	1,000	300
Office of Justice Programs	300	300	-	-	15,844	150	200	1,075	5,510	8,909

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-32. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Department of Labor, total	-	-	-	-	24,787	-	23,787	-	-	1,000
Bureau of Labor Statistics	-	-	-	-	7,400	-	7,400	-	-	-
Employment Standards Administration	-	-	-	-	181	-	181	-	-	-
Employment and Training Admin	-	-	-	-	6,664	-	6,664	-	-	-
Occupational Safety & Health Admin	-	-	-	-	3,265	-	3,265	-	-	-
Office of the Secretary	-	-	-	-	4,382	-	3,382	-	-	1,000
Pension Benefit Guaranty Corporation	-	-	-	-	355	-	355	-	-	-
Pension & Welfare Benefits Admin	-	-	-	-	2,540	-	2,540	-	-	-
Department of State	-	-	-	-	8,930	447	2,232	1,786	893	3,572
Department of Transportation, total	7,407	1,258	3,547	2,602	5,662	-	2,890	-	2,772	-
Coast Guard	1,607	-	1,607	-	-	-	-	-	-	-
Federal Highway Administration	3,198	1,258	1,940	-	890	-	890	-	-	-
Federal Railroad Administration	-	-	-	-	1,928	-	1,928	-	-	-
Nat'l Highway Traffic Safety Admin	2,602	-	-	2,602	2,772	-	-	-	2,772	-
Office of the Secretary	-	-	-	-	72	-	72	-	-	-
Department of the Treasury, total	11,178	9,501	1,677	-	6,343	-	4,123	-	-	2,220
Internal Revenue Service	11,178	9,501	1,677	-	6,343	-	4,123	-	-	2,220
Other agencies										
Advisory Comm on Intergov'tl Relations	-	-	-	-	1,528	-	764	764	-	-
Agency for Internat'l Development	3,578	-	3,552	26	44,060	-	13,037	1,976	1,641	27,406
Environmental Protection Agency	8,296	35	8,261	-	235	-	235	-	-	-
Federal Communications Commission	75	-	75	-	424	-	344	-	-	80
Federal Trade Commission	-	-	-	-	493	-	493	-	-	-
International Trade Commission	-	-	-	-	10,906	-	10,906	-	-	-
National Aeronautics & Space Admin	81,127	28,928	49,817	2,382	95	-	-	-	84	11
National Archives & Records Admin	70	70	-	-	-	-	-	-	-	-
National Science Foundation	206,272	83,568	122,704	-	54,509	8,993	14,969	4,379	5,119	21,049
Office of Thrift Supervision 3/	-	-	-	-	3,291	-	3,291	-	-	-
Smithsonian Institution	-	-	-	-	30,632	3,367	-	-	-	27,265
Tennessee Valley Authority	-	-	-	-	158	-	158	-	-	-
US Arms Control & Disarmament Agency	25	-	25	-	105	-	-	105	-	-

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-33. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	1,007,043	291,179	672,111	43,753	705,701	17,082	199,589	17,059	119,392	352,579
Departments										
Department of Agriculture, total	12,692	11,129	1,563	-	109,378	-	98,337	562	9,323	1,156
Agricultural Cooperative Service	-	-	-	-	3,018	-	3,018	-	-	-
Agricultural Research Service	1,737	174	1,563	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	33,705	-	26,247	-	7,458	-
Economic Research Service	-	-	-	-	62,479	-	60,323	213	787	1,156
Forest Service	7,941	7,941	-	-	10,176	-	8,749	349	1,078	-
Nat'l Agricultural Statistics Svc	3,014	3,014	-	-	-	-	-	-	-	-
Department of Commerce, total	24,868	6,419	14,631	3,818	2,045	-	1,166	634	-	245
Bureau of the Census	2,728	2,526	202	-	625	-	341	284	-	-
Nat'l Institute of Standards & Tech	20,322	3,234	13,270	3,818	183	-	183	-	-	-
Nat'l Oceanic & Atmospheric Admin	1,818	659	1,159	-	1,237	-	642	350	-	245
Department of Defense, total	483,201	69,630	380,096	33,475	1,472	-	883	-	589	-
Department of the Army	81,203	10,572	64,611	6,020	1,472	-	883	-	589	-
Department of the Navy	94,148	28,530	53,031	12,587	-	-	-	-	-	-
Department of the Air Force	56,550	22,190	30,183	4,177	-	-	-	-	-	-
Defense agencies	251,300	8,338	232,271	10,691	-	-	-	-	-	-
Department of Education	974	-	-	974	132,974	-	-	-	1,315	131,659
Department of Energy	86,756	48,072	38,684	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	21,973	20,501	1,472	-	219,709	1,588	11,918	3,332	89,643	113,228
Administration for Children and Families 1/	-	-	-	-	8,774	-	-	-	-	8,774
Agency for Health Care Policy & Research 2/	-	-	-	-	31,200	-	3,432	-	27,768	-
Alcohol, Drug Abuse & Mental Hlth Admin	2,238	1,284	954	-	88,929	1,588	5,644	3,095	60,217	18,385
Health Care Financing Admin	-	-	-	-	36,000	-	-	-	-	36,000
National Institutes of Health	19,435	19,217	218	-	26,375	-	-	-	-	26,375
Office of the Secretary	300	-	300	-	4,737	-	2,842	237	1,658	-
Social Security Administration	-	-	-	-	23,694	-	-	-	-	23,694
Dept of Housing & Urban Development	660	-	660	-	7,378	-	6,978	-	176	224
Department of the Interior, total	15,128	2,917	12,211	-	4,062	1,502	-	-	1,210	1,350
Bureau of Land Management	-	-	-	-	112	102	-	-	10	-
Geological Survey	14,828	2,917	11,911	-	450	-	-	-	-	450
National Park Service	300	-	300	-	3,500	1,400	-	-	1,200	900
Department of Justice, total	900	400	500	-	13,550	200	500	600	5,100	7,150
Federal Prison System	-	-	-	-	1,300	50	50	-	1,000	200
Office of Justice Programs	900	400	500	-	12,250	150	450	600	4,100	6,950

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-33. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Department of Labor, total	-	-	-	-	30,048	-	23,248	-	-	6,800
Bureau of Labor Statistics	-	-	-	-	7,700	-	7,700	-	-	-
Employment Standards Administration	-	-	-	-	139	-	139	-	-	-
Employment and Training Admin	-	-	-	-	5,609	-	5,609	-	-	-
Occupational Safety & Health Admin	-	-	-	-	3,265	-	3,265	-	-	-
Office of the Secretary	-	-	-	-	10,285	-	3,485	-	-	6,800
Pension Benefit Guaranty Corporation	-	-	-	-	450	-	450	-	-	-
Pension & Welfare Benefits Admin	-	-	-	-	2,600	-	2,600	-	-	-
Department of State	-	-	-	-	8,987	449	2,247	1,798	898	3,595
Department of Transportation, total	7,051	978	3,309	2,764	6,690	-	3,363	-	3,327	-
Coast Guard	1,800	-	1,800	-	-	-	-	-	-	-
Federal Highway Administration	2,487	978	1,509	-	692	-	692	-	-	-
Federal Railroad Administration	-	-	-	-	2,571	-	2,571	-	-	-
Nat'l Highway Traffic Safety Admin	2,764	-	-	2,764	3,327	-	-	-	3,327	-
Office of the Secretary	-	-	-	-	100	-	100	-	-	-
Department of the Treasury, total	11,178	9,501	1,677	-	6,343	-	4,123	-	-	2,220
Internal Revenue Service	11,178	9,501	1,677	-	6,343	-	4,123	-	-	2,220
Other agencies										
Advisory Comm on Intergov'tl Relations	-	-	-	-	1,416	-	708	708	-	-
Agency for Internat'l Development	2,356	-	2,326	30	44,708	-	11,147	3,504	1,792	28,265
Environmental Protection Agency	10,045	35	10,010	-	391	-	391	-	-	-
Federal Communications Commission	78	-	78	-	236	-	236	-	-	-
Federal Trade Commission	-	-	-	-	519	-	519	-	-	-
International Trade Commission	-	-	-	-	11,790	-	11,790	-	-	-
National Aeronautics & Space Admin	85,131	27,783	54,656	2,692	107	-	-	-	94	13
National Science Foundation	243,952	93,814	150,138	-	63,247	9,659	18,383	5,071	5,925	24,209
Office of Thrift Supervision 3/	-	-	-	-	3,494	-	3,494	-	-	-
Smithsonian Institution	-	-	-	-	36,149	3,684	-	-	-	32,465
Tennessee Valley Authority	-	-	-	-	158	-	158	-	-	-
US Arms Control & Disarmament Agency	100	-	100	-	850	-	-	850	-	-

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-34. Federal obligations for basic research, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	11,285,593	2,366,020	887,485	175,402	5,548,169	1,227,261	924,100	59,240	50,358	47,558
Departments										
Department of Agriculture, total	519,190	344,858	2,158	-	163,955	-	3,203	-	737	4,279
Agricultural Marketing Service 2/	540	540	-	-	-	-	-	-	-	-
Agricultural Research Service	294,046	272,410	-	-	17,648	-	1,900	-	51	2,037
Cooperative State Research Service	153,726	8,126	2,018	-	141,676	-	1,298	-	608	-
Economic Research Service	7,075	6,895	-	-	180	-	-	-	-	-
Forest Service	60,300	55,599	140	-	4,451	-	5	-	78	27
Nat'l Agricultural Statistics Svc	917	917	-	-	-	-	-	-	-	-
Off of Internat'l Cooperation & Development	2,586	371	-	-	-	-	-	-	-	2,215
Department of Commerce, total	31,382	25,956	494	-	4,656	96	180	-	-	-
Bureau of the Census	2,812	225	-	-	2,587	-	-	-	-	-
Nat'l Institute of Standards & Tech	28,570	25,731	494	-	2,069	96	180	-	-	-
Department of Defense, total	947,621	300,136	73,654	457	523,586	10,212	27,332	3,107	-	9,137
Department of the Army	185,075	103,288	11,202	71	58,954	4,348	3,910	96	-	3,206
Department of the Navy	365,032	128,464	19,055	205	194,441	2,045	16,470	-	-	4,352
Department of the Air Force	197,045	60,964	10,397	-	118,812	-	4,825	700	-	1,347
Defense agencies	200,469	7,420	33,000	181	151,379	3,819	2,127	2,311	-	232
Department of Education	4,922	348	-	-	4,549	-	25	-	-	-
Department of Energy	1,504,796	43,477	30,250	164,436	334,436	795,264	88,223	47,116	793	801
Dept of Hlth & Human Services, total	4,649,031	816,724	169,769	8,353	2,903,636	17,382	659,721	7,229	41,639	24,558
Alcohol, Drug Abuse & Mental Hlth Admin	386,181	112,812	3,959	-	215,597	202	41,894	-	10,909	808
Health Resources and Services Administration	1,150	1,150	-	-	-	-	-	-	-	-
National Institutes of Health	4,261,700	702,762	165,810	8,353	2,688,059	17,180	617,827	7,229	30,730	23,750
Department of the Interior, total	205,431	170,838	4,015	1,793	26,756	-	-	-	2,019	10
Bureau of Mines	40,647	26,992	3,119	1,793	8,743	-	-	-	-	-
Bureau of Reclamation	100	5	-	-	95	-	-	-	-	-
Geological Survey	159,084	141,241	896	-	14,918	-	-	-	2,019	10
US Fish & Wildlife Service	5,600	2,600	-	-	3,000	-	-	-	-	-
Department of Justice, total	8,802	250	-	-	2,965	-	5,187	-	400	-
Office of Justice Programs	8,802	250	-	-	2,965	-	5,187	-	400	-
Department of Labor, total	300	30	-	-	-	-	-	-	270	-
Employment and Training Admin	300	30	-	-	-	-	-	-	270	-
Department of State	3,527	75	-	-	330	-	3,122	-	-	-
Department of the Treasury, total	3,360	2,174	1,186	-	-	-	-	-	-	-
Internal Revenue Service	3,360	2,174	1,186	-	-	-	-	-	-	-
Department of Veterans Affairs	16,200	16,200	-	-	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	5,031	54	-	-	1,755	-	2,980	-	-	242
Environmental Protection Agency	73,632	7,800	28,703	-	37,129	-	-	-	-	-
Library of Congress	295	295	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	1,636,926	462,326	517,124	-	307,909	298,324	42,123	1,530	1,321	6,269
National Archives & Records Admin	155	155	-	-	-	-	-	-	-	-
National Science Foundation	1,586,276	85,608	60,132	363	1,236,487	105,983	92,004	258	3,179	2,262
Smithsonian Institution	83,987	83,987	-	-	-	-	-	-	-	-
Tennessee Valley Authority	4,729	4,729	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-35. Federal obligations for basic research, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	12,445,936	2,591,658	1,010,332	206,723	6,144,081	1,266,199	1,057,171	64,250	56,952	48,570
Departments										
Department of Agriculture, total	562,594	367,179	2,356	-	186,254	-	3,078	-	736	2,991
Agricultural Marketing Service 2/	540	540	-	-	-	-	-	-	-	-
Agricultural Research Service	317,517	291,386	-	-	22,140	-	2,038	-	55	1,898
Cooperative State Research Service	170,315	8,104	2,191	-	158,398	-	1,034	-	588	-
Economic Research Service	7,670	7,501	-	-	169	-	-	-	-	-
Forest Service	63,800	57,958	165	-	5,547	-	6	-	93	31
Nat'l Agricultural Statistics Svc	961	961	-	-	-	-	-	-	-	-
Off of Internat'l Cooperation & Development	1,791	729	-	-	-	-	-	-	-	1,062
Department of Commerce, total	31,294	27,476	521	-	3,021	96	180	-	-	-
Bureau of the Census	1,183	266	-	-	919	-	-	-	-	-
Nat'l Institute of Standards & Tech	30,109	27,210	521	-	2,102	96	180	-	-	-
Department of Defense, total	1,140,358	311,511	70,420	1,672	717,802	6,186	23,056	1,391	-	8,320
Department of the Army	178,247	98,070	15,130	70	57,777	952	4,009	100	-	2,139
Department of the Navy	397,278	148,060	17,735	155	211,536	1,926	12,951	-	-	4,915
Department of the Air Force	185,266	57,320	9,775	-	111,710	-	4,53/	658	-	1,266
Defense agencies	379,567	8,061	27,780	1,447	336,779	3,308	1,559	633	-	-
Department of Education	7,698	609	-	-	4,696	-	2,393	-	-	-
Department of Energy	1,725,769	47,554	73,553	193,388	391,788	848,654	115,789	53,147	1,034	862
Dept of Hlth & Human Services, total	5,041,743	919,272	192,803	9,453	3,070,740	19,683	746,458	8,204	47,143	27,987
Alcohol, Drug Abuse & Mental Hlth Admin	431,120	121,223	4,819	-	245,173	242	46,243	-	12,364	1,056
Health Resources and Services Administration	1,523	1,523	-	-	-	-	-	-	-	-
National Institutes of Health	4,609,100	796,526	187,984	9,453	2,825,567	19,441	700,215	8,204	34,779	26,931
Department of the Interior, total	233,277	192,107	8,333	1,810	28,027	-	-	-	3,000	-
Bureau of Land Management	1,000	100	-	-	900	-	-	-	-	-
Bureau of Mines	44,302	27,130	7,433	1,810	7,929	-	-	-	-	-
Bureau of Reclamation	100	100	-	-	-	-	-	-	-	-
Geological Survey	182,175	161,777	900	-	16,498	-	-	-	3,000	-
US Fish & Wildlife Service	5,700	3,000	-	-	2,700	-	-	-	-	-
Department of Justice, total	6,211	200	1,800	-	2,000	-	1,861	-	350	-
Office of Justice Programs	6,211	200	1,800	-	2,000	-	1,861	-	350	-
Department of Labor, total	300	30	-	-	270	-	-	-	-	-
Employment and Training Admin	300	30	-	-	270	-	-	-	-	-
Department of State	7,734	81	-	-	519	-	7,134	-	-	-
Department of the Treasury, total	3,576	2,390	1,186	-	-	-	-	-	-	-
Internal Revenue Service	3,576	2,390	1,186	-	-	-	-	-	-	-
Department of Veterans Affairs	15,800	15,800	-	-	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	10,581	89	2,000	-	1,787	-	6,453	-	-	252
Environmental Protection Agency	96,709	12,204	40,555	-	43,950	-	-	-	-	-
Library of Congress	314	314	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	1,729,497	508,600	539,202	-	347,635	281,218	44,505	1,423	1,212	5,702
National Archives & Records Admin	356	356	-	-	-	-	-	-	-	-
National Science Foundation	1,732,130	85,891	77,603	400	1,345,592	110,362	106,264	85	3,477	2,456
Smithsonian Institution	98,180	98,180	-	-	-	-	-	-	-	-
Tennessee Valley Authority	1,815	1,815	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-36. Federal obligations for basic research, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	13,207,952	2,754,770	1,078,561	221,841	6,432,038	1,425,556	1,112,597	72,923	59,141	50,525
Departments										
Department of Agriculture, total	598,019	385,818	2,327	-	204,138	-	3,177	-	631	1,928
Agricultural Marketing Service 2/	556	556	-	-	-	-	-	-	-	-
Agricultural Research Service	336,041	309,808	-	-	22,140	-	2,137	-	58	1,898
Cooperative State Research Service	188,525	8,380	2,167	-	176,460	-	1,034	-	484	-
Economic Research Service	8,747	8,579	-	-	168	-	-	-	-	-
Forest Service	62,100	56,445	160	-	5,370	-	6	-	89	30
Nat'l Agricultural Statistics Svc	992	992	-	-	-	-	-	-	-	-
Off of Internat'l Cooperation & Development	1,058	1,058	-	-	-	-	-	-	-	-
Department of Commerce, total	34,101	29,813	658	-	3,354	96	180	-	-	-
Bureau of the Census	1,476	266	-	-	1,210	-	-	-	-	-
Nat'l Institute of Standards & Tech	32,625	29,547	658	-	2,144	96	180	-	-	-
Department of Defense, total	1,027,988	341,378	70,694	382	575,234	5,591	24,584	853	-	9,272
Department of the Army	192,500	108,426	13,552	70	62,605	690	4,371	100	-	2,686
Department of the Navy	424,622	163,450	18,852	-	223,050	1,150	12,983	-	-	5,137
Department of the Air Force	211,984	65,586	11,185	-	127,820	-	5,191	753	-	1,449
Defense agencies	198,882	3,916	27,105	312	161,759	3,751	2,039	-	-	-
Department of Education	6,794	415	-	-	5,560	-	819	-	-	-
Department of Energy	1,730,600	45,140	44,216	209,297	344,573	932,190	92,539	61,740	375	530
Dept of Hlth & Human Services, total	5,419,080	988,753	208,288	10,212	3,295,238	21,264	805,603	8,863	50,653	30,206
Alcohol, Drug Abuse & Mental Hlth Admin	456,381	126,626	5,199	-	260,979	261	49,125	-	13,080	1,111
Health Resources and Services Administration	1,599	1,599	-	-	-	-	-	-	-	-
National Institutes of Health	4,961,100	860,528	203,089	10,212	3,034,259	21,003	756,478	8,863	37,573	29,095
Department of the Interior, total	210,340	182,836	2,931	1,500	21,573	-	-	-	1,500	-
Bureau of Land Management	3,000	300	-	-	2,700	-	-	-	-	-
Bureau of Mines	33,726	26,145	2,081	1,500	4,000	-	-	-	-	-
Geological Survey	167,914	153,491	850	-	12,073	-	-	-	1,500	-
US Fish & Wildlife Service	5,700	2,900	-	-	2,800	-	-	-	-	-
Department of Justice, total	5,758	500	-	-	2,100	-	2,358	-	800	-
Office of Justice Programs	5,758	500	-	-	2,100	-	2,358	-	800	-
Department of Labor, total	225	30	-	-	195	-	-	-	-	-
Employment and Training Admin	225	30	-	-	195	-	-	-	-	-
Department of State	7,784	84	-	-	6,930	-	770	-	-	-
Department of the Treasury, total	3,576	2,390	1,186	-	-	-	-	-	-	-
Internal Revenue Service	3,576	2,390	1,186	-	-	-	-	-	-	-
Department of Veterans Affairs	15,800	15,800	-	-	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	10,193	83	2,000	-	1,474	-	6,351	-	-	285
Environmental Protection Agency	114,496	8,450	51,737	-	54,309	-	-	-	-	-
Library of Congress	328	328	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	1,944,350	552,296	598,320	-	391,334	344,328	50,034	1,367	1,189	5,482
National Archives & Records Admin	150	150	-	-	-	-	-	-	-	-
National Science Foundation	1,965,308	87,444	96,204	450	1,526,026	122,087	126,182	100	3,993	2,822
Smithsonian Institution	111,744	111,744	-	-	-	-	-	-	-	-
Tennessee Valley Authority	1,318	1,318	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-37. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Field of science and engineering	1990	Estimates	
		1991	1992
Total, all fields	11,285,593	12,445,936	13,207,952
Life sciences, total	5,177,543	5,609,693	6,056,356
Biological (excluding environmental)	2,742,154	2,981,528	3,236,557
Environmental biology	168,325	182,473	188,867
Agricultural	308,527	328,176	356,964
Medical	1,849,627	1,999,829	2,149,122
Life sciences, n.e.c	108,910	117,687	124,846
Psychology, total	215,057	236,170	252,501
Biological aspects	65,872	73,059	78,848
Social aspects	62,704	69,217	71,377
Psychological sciences, n.e.c.	86,481	93,894	102,276
Physical sciences, total	2,661,508	2,961,568	3,144,488
Astronomy	579,940	636,902	716,891
Chemistry	502,080	549,890	587,685
Physics	1,474,342	1,659,850	1,692,292
Physical sciences, n.e.c.	105,146	114,926	147,620
Environmental sciences, total	1,274,810	1,412,750	1,509,072
Atmospheric	443,719	492,005	561,117
Geological	439,725	499,006	516,856
Oceanography	299,732	332,022	360,076
Environmental sciences, n.e.c.	91,634	89,717	71,023
Mathematics & computer sciences, total	406,883	452,258	510,354
Mathematics	176,341	191,222	216,013
Computer sciences	225,209	258,299	289,679
Mathematics & computer sciences, n.e.c.	5,333	2,737	4,662
Engineering, total	1,101,528	1,279,150	1,212,558
Aeronautical	269,647	273,133	293,583
Astronautical	62,292	62,696	66,310
Chemical	75,849	85,467	70,784
Civil	47,264	55,298	61,724
Electrical	146,938	152,614	156,971
Mechanical	91,424	100,701	110,419
Metallurgy & materials	260,165	304,367	286,569
Engineering, n.e.c.	147,949	244,874	166,198
Social sciences, total	145,998	169,339	172,451
Anthropology	12,535	13,733	14,709
Economics	37,110	37,647	39,554
Political science	6,354	6,792	7,468
Sociology	24,170	27,756	27,799
Social sciences, n.e.c.	65,829	83,411	82,921
Other sciences, n.e.c.	302,266	325,008	350,172

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-38. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	11,285,593	5,177,543	215,057	2,661,508	1,274,810	406,883	1,101,528	145,998	302,266
Departments									
Department of Agriculture, total	519,190	436,906	115	37,297	5,337	4,559	13,457	21,519	-
Agricultural Marketing Service 1/	540	540	-	-	-	-	-	-	-
Agricultural Research Service	294,046	264,813	-	25,462	1,038	621	2,112	-	-
Cooperative State Research Service	153,726	130,086	-	7,469	241	-	5,357	10,573	-
Economic Research Service	7,075	-	-	-	-	-	-	7,075	-
Forest Service	60,300	38,881	115	4,366	4,058	3,021	5,988	3,871	-
Nat'l Agricultural Statistics Svc	917	-	-	-	-	917	-	-	-
Off of Internat'l Cooperation & Development	2,586	2,586	-	-	-	-	-	-	-
Department of Commerce, total	31,382	-	533	22,942	75	2,562	5,270	-	-
Bureau of the Census	2,812	-	533	-	-	2,279	-	-	-
Nat'l Institute of Standards & Tech	28,570	-	-	22,942	75	283	5,270	-	-
Department of Defense, total	947,621	99,076	35,603	170,103	140,189	136,521	357,966	-	8,163
Department of the Army	185,075	49,674	6,072	36,181	12,328	22,847	57,951	-	22
Department of the Navy	365,032	28,101	16,872	73,825	98,491	33,587	107,282	-	6,874
Department of the Air Force	197,045	11,113	11,197	49,585	13,708	21,856	79,586	-	-
Defense agencies	200,469	10,188	1,462	10,512	15,662	58,231	103,147	-	1,267
Department of Education	4,922	1,479	-	-	-	-	-	3,443	-
Department of Energy	1,504,796	169,874	-	1,029,007	115,779	48,719	140,160	-	1,257
Dept of Hlth & Human Services, total	4,649,031	4,095,554	163,862	99,899	-	12,399	49,248	39,044	189,025
Alcohol, Drug Abuse & Mental Hlth Admin	386,181	235,706	103,317	4,502	-	705	806	26,307	14,838
Health Resources and Services Administration	1,150	1,150	-	-	-	-	-	-	-
National Institutes of Health	4,261,700	3,858,698	60,545	95,397	-	11,694	48,442	12,737	174,187
Department of the Interior, total	205,431	5,600	-	10,239	151,605	2,363	35,624	-	-
Bureau of Mines	40,647	-	-	-	5,123	-	35,524	-	-
Bureau of Reclamation	100	-	-	-	-	-	100	-	-
Geological Survey	159,084	-	-	10,239	146,482	2,363	-	-	-
US Fish & Wildlife Service	5,600	5,600	-	-	-	-	-	-	-
Department of Justice, total	8,802	478	-	377	-	-	-	5,204	2,743
Office of Justice Programs	8,802	478	-	377	-	-	-	5,204	2,743
Department of Labor, total	300	-	-	-	-	-	-	300	-
Employment and Training Admin	300	-	-	-	-	-	-	300	-
Department of State	3,527	-	-	-	-	-	-	3,527	-
Department of the Treasury, total	3,360	-	-	-	-	2,144	-	1,216	-
Internal Revenue Service	3,360	-	-	-	-	2,144	-	1,216	-
Department of Veterans Affairs	16,200	15,783	417	-	-	-	-	-	-
Other agencies									
Agency for Internat'l Development	5,031	1,558	-	-	-	-	-	3,231	242
Environmental Protection Agency	73,632	30,132	-	11,199	15,745	156	16,181	219	-
Library of Congress	295	-	-	-	-	-	-	-	295
National Aeronautics & Space Admin	1,636,926	35,996	3,673	806,121	405,863	24,679	349,976	84	10,534
National Archives & Records Admin	155	-	-	155	-	-	-	-	-
National Science Foundation	1,586,276	252,570	10,854	453,561	433,618	172,781	133,646	39,239	90,007
Smithsonian Institution	83,987	30,350	-	18,066	6,599	-	-	28,972	-
Tennessee Valley Authority	4,729	2,187	-	2,542	-	-	-	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-39. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	12,445,936	5,609,693	236,170	2,961,568	1,412,750	452,258	1,279,150	169,339	325,008
Departments									
Department of Agriculture, total	562,594	474,986	121	40,772	6,200	4,828	13,865	21,822	-
Agricultural Marketing Service 1/	540	540	-	-	-	-	-	-	-
Agricultural Research Service	317,517	284,794	-	28,008	1,681	671	2,363	-	-
Cooperative State Research Service	170,315	146,723	-	8,145	225	-	5,166	10,056	-
Economic Research Service	7,670	-	-	-	-	-	-	7,670	-
Forest Service	63,800	41,138	121	4,619	4,294	3,196	6,336	4,096	-
Nat'l Agricultural Statistics Svc	961	-	-	-	-	961	-	-	-
Off of Internat'l Cooperation & Development	1,791	1,791	-	-	-	-	-	-	-
Department of Commerce, total	31,294	-	223	24,063	110	1,218	5,680	-	-
Bureau of the Census	1,185	-	223	-	-	962	-	-	-
Nat'l Institute of Standards & Tech	30,109	-	-	24,063	110	256	5,680	-	-
Department of Defense, total	1,140,358	110,020	36,241	190,029	172,742	144,744	470,100	10,000	6,482
Department of the Army	178,247	49,293	5,516	35,038	11,563	17,689	58,924	-	224
Department of the Navy	397,278	30,785	17,564	81,400	109,585	36,430	115,697	-	5,817
Department of the Air Force	185,266	11,628	10,331	51,880	13,521	20,961	76,945	-	-
Defense agencies	379,567	18,314	2,830	21,711	38,073	69,664	218,534	10,000	441
Department of Education	7,698	1,479	-	-	-	-	-	6,219	-
Department of Energy	1,725,769	162,425	-	1,201,367	132,453	59,262	169,032	-	1,230
Dept of Hlth & Human Services, total	5,041,743	4,439,356	182,121	108,475	-	13,474	53,371	41,907	203,039
Alcohol, Drug Abuse & Mental Hlth Admin	431,120	264,569	116,626	5,323	-	845	966	28,126	14,665
Health Resources and Services Administration	1,523	1,523	-	-	-	-	-	-	-
National Institutes of Health	4,609,100	4,173,264	65,495	103,152	-	12,629	52,405	13,781	188,374
Department of the Interior, total	233,277	5,800	-	12,916	173,687	3,457	37,217	200	-
Bureau of Land Management	1,000	-	-	-	1,000	-	-	-	-
Bureau of Mines	44,302	-	-	-	7,085	-	37,217	-	-
Bureau of Reclamation	100	-	-	100	-	-	-	-	-
Geological Survey	182,175	100	-	12,816	165,602	3,457	-	200	-
US Fish & Wildlife Service	5,700	5,700	-	-	-	-	-	-	-
Department of Justice, total	6,211	100	-	75	-	100	-	3,786	2,150
Office of Justice Programs	6,211	100	-	75	-	100	-	3,786	2,150
Department of Labor, total	300	-	-	-	-	-	-	300	-
Employment and Training Admin	300	-	-	-	-	-	-	300	-
Department of State	7,734	-	-	-	-	-	-	7,734	-
Department of the Treasury, total	3,576	-	-	-	-	2,281	-	1,295	-
Internal Revenue Service	3,576	-	-	-	-	2,281	-	1,295	-
Department of Veterans Affairs	15,800	15,402	398	-	-	-	-	-	-
Other agencies									
Agency for Internat'l Development	10,581	3,922	-	-	-	-	-	1,407	5,252
Environmental Protection Agency	96,709	42,114	-	16,267	12,866	3,805	21,427	230	-
Library of Congress	314	-	-	-	-	-	-	-	314
National Aeronautics & Space Admin	1,729,497	46,648	4,147	855,283	419,667	27,863	363,902	95	11,892
National Archives & Records Admin	356	-	-	356	-	-	-	-	-
National Science Foundation	1,732,130	270,772	12,919	486,339	487,957	191,226	144,556	43,712	94,649
Smithsonian Institution	98,180	35,642	-	24,838	7,068	-	-	30,632	-
Tennessee Valley Authority	1,815	1,027	-	788	-	-	-	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-40. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	13,207,952	6,056,356	252,501	3,144,488	1,509,072	510,354	1,212,558	172,451	350,172
Departments									
Department of Agriculture, total	598,019	510,185	118	43,260	6,182	4,813	12,480	20,981	-
Agricultural Marketing Service 1/	556	556	-	-	-	-	-	-	-
Agricultural Research Service	336,041	301,408	-	29,643	1,779	710	2,501	-	-
Cooperative State Research Service	188,525	167,121	-	9,121	224	-	3,812	8,247	-
Economic Research Service	8,747	-	-	-	-	-	-	8,747	-
Forest Service	62,100	40,042	118	4,496	179	3,111	6,167	3,987	-
Nat'l Agricultural Statistics Svc	992	-	-	-	-	992	-	-	-
Off of Internat'l Cooperation & Development	1,058	1,058	-	-	-	-	-	-	-
Department of Commerce, total	34,101	-	277	25,308	120	1,574	6,822	-	-
Bureau of the Census	1,476	-	277	-	-	1,199	-	-	-
Nat'l Institute of Standards & Tech	32,625	-	-	25,308	120	375	6,822	-	-
Department of Defense, total	1,027,988	112,552	37,911	193,851	156,144	140,248	382,047	-	5,235
Department of the Army	192,500	55,914	6,331	36,926	12,648	23,657	56,867	-	157
Department of the Navy	424,622	33,403	18,857	86,263	113,942	39,424	127,655	-	5,078
Department of the Air Force	211,984	14,435	11,946	57,700	16,417	24,420	87,066	-	-
Defense agencies	198,882	8,800	777	12,962	13,137	52,747	110,459	-	-
Department of Education	6,794	1,479	-	-	-	-	-	5,315	-
Department of Energy	1,730,600	177,338	-	1,209,756	131,846	81,950	128,368	-	1,342
Dept of Hlth & Human Services, total	5,419,080	4,775,209	194,423	116,896	-	14,504	57,450	43,541	217,057
Alcohol, Drug Abuse & Mental Hlth Admin	456,381	281,631	123,926	5,867	-	911	1,042	28,707	14,297
Health Resources and Services Administration	1,599	1,599	-	-	-	-	-	-	-
National Institutes of Health	4,961,100	4,491,979	70,497	111,029	-	13,593	56,408	14,834	202,760
Department of the Interior, total	210,340	5,900	-	12,018	159,462	3,673	28,987	300	-
Bureau of Land Management	3,000	-	-	-	3,000	-	-	-	-
Bureau of Mines	33,726	-	-	-	4,739	-	28,987	-	-
Geological Survey	167,914	200	-	12,018	151,723	3,673	-	300	-
US Fish & Wildlife Service	5,700	5,700	-	-	-	-	-	-	-
Department of Justice, total	5,758	300	300	-	-	400	-	4,258	500
Office of Justice Programs	5,758	300	300	-	-	400	-	4,258	500
Department of Labor, total	225	-	-	-	-	-	-	225	-
Employment and Training Admin	225	-	-	-	-	-	-	225	-
Department of State	7,784	-	-	-	-	-	-	7,784	-
Department of the Treasury, total	3,576	-	-	-	-	2,281	-	1,295	-
Internal Revenue Service	3,576	-	-	-	-	2,281	-	1,295	-
Department of Veterans Affairs	15,800	15,400	400	-	-	-	-	-	-
Other agencies									
Agency for Internat'l Development	10,193	3,287	-	-	-	-	-	1,621	5,285
Environmental Protection Agency	114,496	47,401	-	19,954	16,494	4,888	25,375	384	-
Library of Congress	328	-	-	-	-	-	-	-	328
National Aeronautics & Space Admin	1,944,350	63,211	4,668	952,070	477,900	31,366	401,640	107	13,388
National Archives & Records Admin	150	-	-	150	-	-	-	-	-
National Science Foundation	1,965,308	304,640	14,404	541,525	553,165	224,657	169,389	50,491	107,037
Smithsonian Institution	111,744	38,709	-	29,127	7,759	-	-	36,149	-
Tennessee Valley Authority	1,318	745	-	573	-	-	-	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-41. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	215,057	65,872	62,704	86,481	5,177,543	2,742,154	168,325	308,527	1,849,627	108,910
Departments										
Department of Agriculture, total	115	-	115	-	436,906	66,619	55,287	301,199	13,801	-
Agricultural Marketing Service 1/	-	-	-	-	540	-	-	540	-	-
Agricultural Research Service	-	-	-	-	264,813	17,444	15,579	225,061	6,729	-
Cooperative State Research Service	-	-	-	-	130,086	33,787	16,215	73,012	7,072	-
Forest Service	115	-	115	-	38,881	15,388	23,493	-	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	2,586	-	-	2,586	-	-
Department of Commerce, total	533	-	533	-	-	-	-	-	-	-
Bureau of the Census	533	-	533	-	-	-	-	-	-	-
Department of Defense, total	35,603	9,518	11,058	15,027	99,076	32,202	9,530	-	55,846	1,498
Department of the Army	6,072	120	3,570	2,382	49,674	4,560	996	-	44,118	-
Department of the Navy	16,872	8,075	6,026	2,771	28,101	13,374	2,640	-	10,589	1,498
Department of the Air Force	11,197	1,323	-	9,874	11,113	5,301	5,812	-	-	-
Defense agencies	1,462	-	1,462	-	10,188	8,967	82	-	1,139	-
Department of Education	-	-	-	-	1,479	-	-	-	-	1,479
Department of Energy	-	-	-	-	169,874	154,699	230	-	-	14,945
Dept of Hlth & Human Services, total	163,862	51,438	43,662	68,762	4,095,554	2,253,250	455	102	1,755,872	85,875
Alcohol, Drug Abuse & Mental Hlth Admin	103,317	50,900	41,906	10,511	235,706	153,562	407	102	72,457	9,178
Health Resources and Services Administration	-	-	-	-	1,150	-	-	-	1,150	-
National Institutes of Health	60,545	538	1,756	58,251	3,858,698	2,099,688	48	-	1,682,265	76,697
Department of the Interior, total	-	-	-	-	5,600	3,900	1,700	-	-	-
US Fish & Wildlife Service	-	-	-	-	5,600	3,900	1,700	-	-	-
Department of Justice, total	-	-	-	-	478	250	11	-	-	217
Office of Justice Programs	-	-	-	-	478	250	11	-	-	217
Department of Veterans Affairs	417	417	-	-	15,783	2,417	-	-	13,366	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	1,558	-	516	1,042	-	-
Environmental Protection Agency	-	-	-	-	30,132	11,967	9,880	3,413	4,872	-
National Aeronautics & Space Admin	3,673	85	910	2,678	35,996	22,960	2,504	584	5,870	4,078
National Science Foundation	10,854	4,414	6,426	14	252,570	179,737	72,015	-	-	818
Smithsonian Institution	-	-	-	-	30,350	14,153	16,197	-	-	-
Tennessee Valley Authority	-	-	-	-	2,187	-	-	2,187	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-42. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	236,170	73,059	69,217	93,894	5,609,693	2,981,528	182,473	328,176	1,999,829	117,687
Departments										
Department of Agriculture, total	121	-	121	-	474,986	78,340	60,378	321,499	14,769	-
Agricultural Marketing Service 1/	-	-	-	-	540	-	-	540	-	-
Agricultural Research Service	-	-	-	-	284,794	21,763	19,259	235,819	7,953	-
Cooperative State Research Service	-	-	-	-	146,723	40,295	16,263	83,349	6,816	-
Forest Service	121	-	121	-	41,138	16,282	24,856	-	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	1,791	-	-	1,791	-	-
Department of Commerce, total	223	-	223	-	-	-	-	-	-	-
Bureau of the Census	223	-	223	-	-	-	-	-	-	-
Department of Defense, total	36,241	8,591	12,137	15,513	110,020	39,759	12,186	-	56,424	1,651
Department of the Army	5,516	108	3,156	2,252	49,293	4,192	421	-	44,680	-
Department of the Navy	17,564	8,483	6,151	2,930	30,785	16,257	2,776	-	10,101	1,651
Department of the Air Force	10,331	-	-	10,331	11,628	5,547	6,081	-	-	-
Defense agencies	2,830	-	2,830	-	18,314	13,763	2,908	-	1,643	-
Department of Education	-	-	-	-	1,479	-	-	-	-	1,479
Department of Energy	-	-	-	-	162,425	148,591	227	-	-	13,607
Dept of Hlth & Human Services, total	182,121	58,497	48,282	75,342	4,439,356	2,442,204	448	100	1,903,283	93,321
Alcohol, Drug Abuse & Mental Hlth Admin	116,626	57,898	46,392	12,336	264,569	171,347	402	100	82,364	10,356
Health Resources and Services Administration	-	-	-	-	1,523	-	-	-	1,523	-
National Institutes of Health	65,495	599	1,890	63,006	4,173,264	2,270,857	46	-	1,819,396	82,965
Department of the Interior, total	-	-	-	-	5,800	3,500	2,250	50	-	-
Geological Survey	-	-	-	-	100	-	50	50	-	-
US Fish & Wildlife Service	-	-	-	-	5,700	3,500	2,200	-	-	-
Department of Justice, total	-	-	-	-	100	-	100	-	-	-
Office of Justice Programs	-	-	-	-	100	-	100	-	-	-
Department of Veterans Affairs	398	398	-	-	15,402	2,478	-	-	12,924	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	3,922	-	435	1,072	415	2,000
Environmental Protection Agency	-	-	-	-	42,114	26,163	6,795	3,769	5,387	-
National Aeronautics & Space Admin	4,147	96	1,027	3,024	46,648	30,997	3,760	659	6,627	4,605
National Science Foundation	12,919	5,477	7,427	15	270,772	193,398	76,350	-	-	1,024
Smithsonian Institution	-	-	-	-	35,642	16,098	19,544	-	-	-
Tennessee Valley Authority	-	-	-	-	1,027	-	-	1,027	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-43. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	252,501	78,848	71,377	102,276	6,056,356	3,236,557	188,867	356,964	2,149,122	124,846
Departments										
Department of Agriculture, total	118	-	118	-	510,185	91,123	57,635	350,666	10,761	-
Agricultural Marketing Service 1/	-	-	-	-	556	-	-	556	-	-
Agricultural Research Service	-	-	-	-	301,408	23,033	20,382	249,577	8,416	-
Cooperative State Research Service	-	-	-	-	167,121	52,242	13,059	99,475	2,345	-
Forest Service	118	-	118	-	40,042	15,848	24,194	-	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	1,058	-	-	1,058	-	-
Department of Commerce, total	277	-	277	-	-	-	-	-	-	-
Bureau of the Census	277	-	277	-	-	-	-	-	-	-
Department of Defense, total	37,911	9,739	10,664	17,508	112,552	36,863	10,700	-	63,422	1,567
Department of the Army	6,331	114	3,722	2,495	55,911	4,714	208	-	50,992	-
Department of the Navy	18,857	8,848	6,942	3,067	33,403	17,959	2,897	-	10,980	1,567
Department of the Air Force	11,946	-	-	11,946	14,435	6,938	7,497	-	-	-
Defense agencies	777	777	-	-	8,800	7,252	98	-	1,450	-
Department of Education	-	-	-	-	1,479	-	-	-	-	1,479
Department of Energy	-	-	-	-	177,338	163,813	235	-	-	13,290
Dept of Hlth & Human Services, total	194,423	62,497	50,578	81,348	4,775,209	2,626,509	442	98	2,048,004	100,156
Alcohol, Drug Abuse & Mental Hlth Admin	123,926	61,852	48,544	13,530	281,631	182,225	392	98	88,060	10,856
Health Resources and Services Administration	-	-	-	-	1,599	-	-	-	1,599	-
National Institutes of Health	70,497	645	2,034	67,818	4,491,979	2,444,284	50	-	1,958,345	89,300
Department of the Interior, total	-	-	-	-	5,900	4,000	1,800	100	-	-
Geological Survey	-	-	-	-	200	-	100	100	-	-
US Fish & Wildlife Service	-	-	-	-	5,700	4,000	1,700	-	-	-
Department of Justice, total	300	-	300	-	300	100	200	-	-	-
Office of Justice Programs	300	-	300	-	300	100	200	-	-	-
Department of Veterans Affairs	400	400	-	-	15,400	2,476	-	-	12,924	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	3,287	-	405	802	80	2,000
Environmental Protection Agency	-	-	-	-	47,401	29,832	7,287	3,811	6,471	-
National Aeronautics & Space Admin	4,668	108	1,157	3,403	63,211	45,362	4,464	742	7,460	5,183
National Science Foundation	14,404	6,104	8,283	17	304,640	218,691	84,778	-	-	1,171
Smithsonian Institution	-	-	-	-	38,709	17,788	20,921	-	-	-
Tennessee Valley Authority	-	-	-	-	745	-	-	745	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-44. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	2,661,508	579,940	502,080	1,474,342	105,146	1,274,810	443,719	439,725	299,732	91,634
Departments										
Department of Agriculture, total	37,297	-	35,372	1,925	-	5,337	1,925	3,412	-	-
Agricultural Research Service	25,462	-	24,363	1,099	-	1,038	936	102	-	-
Cooperative State Research Service	7,469	-	7,469	-	-	241	241	-	-	-
Forest Service	4,366	-	3,540	826	-	4,058	748	3,310	-	-
Department of Commerce, total	22,942	291	9,450	13,126	75	75	-	75	-	-
Nat'l Institute of Standards & Tech	22,942	291	9,450	13,126	75	75	-	75	-	-
Department of Defense, total	170,103	10,352	65,547	87,118	7,086	140,189	34,347	40,742	63,167	1,933
Department of the Army	36,181	-	13,994	15,572	6,615	12,328	7,469	3,444	45	1,370
Department of the Navy	73,825	4,296	25,712	43,346	471	98,491	14,697	27,536	55,695	563
Department of the Air Force	49,585	6,056	23,041	20,488	-	13,708	10,548	3,160	-	-
Defense agencies	10,512	-	2,800	7,712	-	15,662	1,633	6,602	7,427	-
Department of Energy	1,029,007	-	128,733	899,362	912	115,779	55,802	53,563	5,990	424
Dept of Hlth & Human Services, total	99,899	-	87,079	12,671	149	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	4,502	-	4,502	-	-	-	-	-	-	-
National Institutes of Health	95,397	-	82,577	12,671	149	-	-	-	-	-
Department of the Interior, total	10,239	-	8,139	2,100	-	151,605	-	132,296	15,870	3,439
Bureau of Mines	-	-	-	-	-	5,123	-	1,684	-	3,439
Geological Survey	10,239	-	8,139	2,100	-	146,482	-	130,612	15,870	-
Department of Justice, total	377	-	-	-	377	-	-	-	-	-
Office of Justice Programs	377	-	-	-	377	-	-	-	-	-
Other agencies										
Environmental Protection Agency	11,199	-	9,633	1,566	-	15,745	13,122	1,690	933	-
National Aeronautics & Space Admin	806,121	447,008	27,664	272,843	58,606	405,863	210,949	95,570	25,916	73,428
National Archives & Records Admin	155	-	5	150	-	-	-	-	-	-
National Science Foundation	453,561	104,223	127,916	183,481	37,941	433,618	127,530	107,652	186,026	12,410
Smithsonian Institution	18,066	18,066	-	-	-	6,599	44	4,725	1,830	-
Tennessee Valley Authority	2,542	-	2,542	-	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-45. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	2,961,568	636,902	549,890	1,659,850	114,926	1,412,750	492,005	499,006	332,022	89,717
Departments										
Department of Agriculture, total	40,772	-	38,876	1,896	-	6,200	2,584	3,616	-	-
Agricultural Research Service	28,008	-	26,986	1,022	-	1,681	1,568	113	-	-
Cooperative State Research Service	8,145	-	8,145	-	-	225	225	-	-	-
Forest Service	4,619	-	3,745	874	-	4,294	791	3,503	-	-
Department of Commerce, total	24,063	298	10,169	13,551	45	110	-	110	-	-
Nat'l Institute of Standards & Tech	24,063	298	10,169	13,551	45	110	-	110	-	-
Department of Defense, total	190,029	11,368	72,188	95,600	10,873	172,742	35,334	40,978	74,706	21,724
Department of the Army	35,038	-	13,494	10,928	10,616	11,563	7,118	2,859	82	1,504
Department of the Navy	81,400	5,031	28,283	47,829	257	109,585	15,166	31,007	62,814	598
Department of the Air Force	51,880	6,337	24,107	21,436	-	13,521	10,215	3,306	-	-
Defense agencies	21,711	-	6,304	15,407	-	38,073	2,835	3,806	11,810	19,622
Department of Energy	1,201,367	-	140,690	1,059,777	900	132,453	69,341	57,813	4,791	508
Dept of Hlth & Human Services, total	108,475	-	94,647	13,689	139	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	5,323	-	5,323	-	-	-	-	-	-	-
National Institutes of Health	103,152	-	89,324	13,689	139	-	-	-	-	-
Department of the Interior, total	12,916	-	10,187	2,629	100	173,687	600	151,232	16,381	5,474
Bureau of Land Management	-	-	-	-	-	1,000	300	-	-	700
Bureau of Mines	-	-	-	-	-	7,085	-	2,311	-	4,774
Bureau of Reclamation	100	-	-	-	100	-	-	-	-	-
Geological Survey	12,816	-	10,187	2,629	-	165,602	300	148,921	16,381	-
Department of Justice, total	75	-	-	-	75	-	-	-	-	-
Office of Justice Programs	75	-	-	-	75	-	-	-	-	-
Other agencies										
Environmental Protection Agency	16,267	-	14,554	1,713	-	12,866	12,745	121	-	-
National Aeronautics & Space Admin	855,283	483,470	32,354	277,063	62,396	419,667	229,992	115,711	25,729	48,235
National Archives & Records Admin	356	-	206	150	-	-	-	-	-	-
National Science Foundation	486,339	116,928	135,231	193,782	40,398	487,957	141,357	124,374	208,450	13,776
Smithsonian Institution	24,838	24,838	-	-	-	7,068	52	5,051	1,965	-
Tennessee Valley Authority	788	-	788	-	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-46. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	3,144,488	716,891	587,685	1,692,292	147,620	1,509,072	561,117	516,856	360,076	71,023
Departments										
Department of Agriculture, total	43,260	-	41,327	1,933	-	6,182	2,654	3,528	-	-
Agricultural Research Service	29,643	-	28,561	1,082	-	1,779	1,660	119	-	-
Cooperative State Research Service	9,121	-	9,121	-	-	224	224	-	-	-
Forest Service	4,496	-	3,645	851	-	4,179	770	3,409	-	-
Department of Commerce, total	25,308	307	10,601	14,353	47	120	-	114	-	6
Nat'l Institute of Standards & Tech	25,308	307	10,601	14,353	47	120	-	114	-	6
Department of Defense, total	193,851	12,890	73,628	100,917	6,416	156,144	40,245	41,669	71,976	2,254
Department of the Army	36,926	-	14,475	16,417	6,034	12,648	7,941	3,030	51	1,626
Department of the Navy	86,263	5,067	29,552	51,262	382	113,942	16,377	33,480	63,457	628
Department of the Air Force	57,700	7,765	26,366	23,569	-	16,417	11,825	4,592	-	-
Defense agencies	12,962	58	3,235	9,669	-	13,137	4,102	567	8,468	-
Department of Energy	1,209,756	-	134,069	1,074,755	932	131,846	78,795	47,105	5,812	134
Dept of Hlth & Human Services, total	116,896	-	102,013	14,734	149	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	5,867	-	5,867	-	-	-	-	-	-	-
National Institutes of Health	111,029	-	96,146	14,734	149	-	-	-	-	-
Department of the Interior, total	12,018	-	9,553	2,465	-	159,462	1,200	135,482	17,128	5,652
Bureau of Land Management	-	-	-	-	-	3,000	500	-	-	2,500
Bureau of Mines	-	-	-	-	-	4,739	-	1,587	-	3,152
Geological Survey	12,018	-	9,553	2,465	-	151,723	700	133,895	17,128	-
Other agencies										
Environmental Protection Agency	19,954	-	17,974	1,980	-	16,494	16,297	197	-	-
National Aeronautics & Space Admin	952,070	551,694	48,378	263,900	88,098	477,900	258,633	145,803	26,724	46,740
National Archives & Records Admin	150	-	-	150	-	-	-	-	-	-
National Science Foundation	541,525	122,873	149,569	217,105	51,978	553,165	163,209	137,432	236,287	16,237
Smithsonian Institution	29,127	29,127	-	-	-	7,759	84	5,526	2,149	-
Tennessee Valley Authority	573	-	573	-	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-47. Federal obligations for basic research in engineering, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	1,101,528	269,647	62,292	75,849	47,264	146,938	91,424	260,165	147,949
Departments									
Department of Agriculture, total	13,457	-	-	2,428	2,430	155	1,513	-	6,931
Agricultural Research Service	2,112	-	-	1,149	730	131	102	-	-
Cooperative State Research Service	5,357	-	-	-	-	-	-	-	5,357
Forest Service	5,988	-	-	1,279	1,700	24	1,411	-	1,574
Department of Commerce, total	5,270	-	-	1,024	-	1,055	-	910	2,281
Nat'l Institute of Standards & Tech	5,270	-	-	1,024	-	1,055	-	910	2,281
Department of Defense, total	357,966	38,415	3,978	5,192	14,700	98,933	44,033	145,824	6,891
Department of the Army	57,951	8,220	-	2,706	4,849	22,489	7,958	10,959	770
Department of the Navy	107,282	2,123	-	2,486	941	36,171	29,440	35,619	502
Department of the Air Force	89,586	23,601	3,052	-	4,913	31,743	5,491	20,786	-
Defense agencies	103,147	4,471	926	-	3,997	8,530	1,144	78,460	5,619
Department of Energy	140,160	-	-	28,099	-	400	15,606	61,445	34,610
Dept of Hlth & Human Services, total	49,248	-	-	-	-	-	-	-	49,248
Alcohol, Drug Abuse & Mental Hlth Admin	806	-	-	-	-	-	-	-	806
National Institutes of Health	48,442	-	-	-	-	-	-	-	48,442
Department of the Interior, total	35,624	-	-	-	100	-	-	13,519	22,005
Bureau of Mines	35,524	-	-	-	-	-	-	13,519	22,005
Bureau of Reclamation	100	-	-	-	100	-	-	-	-
Other agencies									
Environmental Protection Agency	16,181	-	-	3,628	3,053	-	213	156	9,131
National Aeronautics & Space Admin	349,975	230,690	58,314	8,510	151	6,397	7,216	33,054	5,644
National Science Foundation	133,646	542	-	26,968	26,830	39,998	22,843	5,257	11,208

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-48. Federal obligations for basic research in engineering, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	1,279,150	273,133	62,696	85,467	55,298	152,614	100,701	304,367	244,874
Departments									
Department of Agriculture, total	13,865	-	-	2,682	2,424	220	1,708	-	6,831
Agricultural Research Service	2,363	-	-	1,329	625	194	215	-	-
Cooperative State Research Service	5,166	-	-	-	-	-	-	-	5,166
Forest Service	6,336	-	-	1,353	1,799	26	1,493	-	1,665
Department of Commerce, total	5,680	-	-	661	-	1,050	155	1,400	2,414
Nat'l Institute of Standards & Tech	5,680	-	-	661	-	1,050	155	1,400	2,414
Department of Defense, total	470,100	41,800	1,790	3,153	19,985	99,649	48,111	179,953	75,659
Department of the Army	58,924	7,185	-	2,693	7,174	24,866	6,233	10,035	738
Department of the Navy	115,697	1,549	-	460	285	40,258	34,178	36,248	2,719
Department of the Air Force	76,945	24,529	-	-	4,976	20,286	5,572	21,582	-
Defense agencies	218,534	8,537	1,790	-	7,550	14,239	2,128	112,088	72,202
Department of Energy	169,032	-	-	36,652	-	400	17,887	61,360	52,733
Dept of Hlth & Human Services, total	53,371	-	-	-	-	-	-	-	53,371
Alcohol, Drug Abuse & Mental Hlth Admin	966	-	-	-	-	-	-	-	966
National Institutes of Health	52,405	-	-	-	-	-	-	-	52,405
Department of the Interior, total	37,217	-	-	-	-	-	-	14,432	22,785
Bureau of Mines	37,217	-	-	-	-	-	-	14,432	22,785
Other agencies									
Environmental Protection Agency	21,427	-	-	4,503	3,954	-	221	166	12,583
National Aeronautics & Space Admin	363,902	230,752	60,906	8,903	170	7,222	8,147	41,429	6,373
National Science Foundation	144,556	581	-	28,913	28,765	44,073	24,472	5,627	12,125

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-49. Federal obligations for basic research in engineering, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	1,212,558	293,583	66,310	70,784	61,724	156,971	110,419	286,569	166,198
Departments									
Department of Agriculture, total	12,480	-	-	2,724	2,413	230	1,680	-	5,433
Agricultural Research Service	2,501	-	-	1,407	662	205	227	-	-
Cooperative State Research Service	3,812	-	-	-	-	-	-	-	3,812
Forest Service	6,167	-	-	1,317	1,751	25	1,453	-	1,621
Department of Commerce, total	6,822	-	-	697	100	1,749	397	1,398	2,481
Nat'l Institute of Standards & Tech	6,822	-	-	697	100	1,749	397	1,398	2,481
Department of Defense, total	382,047	41,494	1,670	3,530	21,428	93,082	53,851	158,726	8,266
Department of the Army	56,867	8,022	-	2,551	7,982	20,180	6,265	11,114	753
Department of the Navy	127,655	857	-	686	474	44,330	37,205	40,227	3,466
Department of the Air Force	87,066	26,979	-	-	6,512	22,538	7,135	23,902	-
Defense agencies	110,459	5,626	1,670	293	6,460	6,034	3,246	83,483	3,047
Department of Energy	128,368	-	-	13,297	-	500	16,629	55,942	42,000
Dept of Hlth & Human Services, total	57,450	-	-	-	-	-	-	-	57,450
Alcohol, Drug Abuse & Mental Hlth Admin	1,042	-	-	-	-	-	-	-	1,042
National Institutes of Health	56,408	-	-	-	-	-	-	-	56,408
Department of the Interior, total	28,987	-	-	-	-	-	-	13,630	15,357
Bureau of Mines	28,987	-	-	-	-	-	-	13,630	15,357
Other agencies									
Environmental Protection Agency	25,375	-	-	6,298	4,377	-	370	277	14,053
National Aeronautics & Space Admin	401,640	251,419	64,640	10,819	192	8,131	9,171	50,095	7,173
National Science Foundation	169,389	670	-	13,419	33,214	53,279	28,321	6,501	13,985

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-50. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	406,883	176,341	225,209	5,333	145,998	12,535	37,110	6,354	24,170	65,829
Departments										
Department of Agriculture, total	4,559	4,000	559	-	21,519	-	18,427	157	2,804	131
Agricultural Research Service	621	62	559	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	10,573	-	8,268	-	2,305	-
Economic Research Service	-	-	-	-	7,075	-	6,831	24	89	131
Forest Service	3,021	3,021	-	-	3,871	-	3,328	133	410	-
Nat'l Agricultural Statistics Svc	917	917	-	-	-	-	-	-	-	-
Department of Commerce, total	2,562	2,533	29	-	-	-	-	-	-	-
Bureau of the Census	2,279	2,279	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	283	254	29	-	-	-	-	-	-	-
Department of Defense, total	136,521	47,824	85,197	3,500	-	-	-	-	-	-
Department of the Army	22,847	5,697	16,741	409	-	-	-	-	-	-
Department of the Navy	33,587	17,026	16,561	-	-	-	-	-	-	-
Department of the Air Force	21,856	15,121	6,735	-	-	-	-	-	-	-
Defense agencies	58,231	9,980	45,160	3,091	-	-	-	-	-	-
Department of Education	-	-	-	-	3,443	-	-	-	-	3,443
Department of Energy	48,719	30,714	18,005	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	12,399	11,947	452	-	39,044	939	3,198	1,138	16,977	16,792
Alcohol, Drug Abuse & Mental Hlth Admin	705	342	363	-	26,307	939	3,198	1,138	16,977	4,055
National Institutes of Health	11,694	11,605	89	-	12,737	-	-	-	-	12,737
Department of the Interior, total	2,363	525	1,838	-	-	-	-	-	-	-
Geological Survey	2,363	525	1,838	-	-	-	-	-	-	-
Department of Justice, total	-	-	-	-	5,204	150	200	1,040	500	3,314
Office of Justice Programs	-	-	-	-	5,204	150	200	1,040	500	3,314
Department of Labor, total	-	-	-	-	300	-	300	-	-	-
Employment and Training Admin	-	-	-	-	300	-	300	-	-	-
Department of State	-	-	-	-	3,527	176	882	705	353	1,411
Department of the Treasury, total	2,144	1,822	322	-	1,216	-	790	-	-	426
Internal Revenue Service	2,144	1,822	322	-	1,216	-	790	-	-	426
Other agencies										
Agency for Internat'l Development	-	-	-	-	3,231	-	2,845	30	-	356
Environmental Protection Agency	156	-	156	-	219	-	-	219	-	-
National Aeronautics & Space Admin	24,679	944	21,902	1,833	84	-	-	-	74	10
National Science Foundation	172,781	76,032	96,749	-	39,239	8,175	10,468	3,065	3,462	14,069
Smithsonian Institution	-	-	-	-	28,972	3,095	-	-	-	25,877

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-51. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	452,250	191,222	258,299	2,737	169,339	13,733	37,647	6,792	27,756	83,411
Departments										
Department of Agriculture, total	4,828	4,224	604	-	21,822	-	18,813	166	2,701	142
Agricultural Research Service	671	67	604	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	10,056	-	7,886	-	2,170	-
Economic Research Service	-	-	-	-	7,670	-	7,405	26	97	142
Forest Service	3,196	3,196	-	-	4,096	-	3,522	140	434	-
Nat'l Agricultural Statistics Svc	961	961	-	-	-	-	-	-	-	-
Department of Commerce, total	1,218	1,218	-	-	-	-	-	-	-	-
Bureau of the Census	962	962	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	256	256	-	-	-	-	-	-	-	-
Department of Defense, total	144,744	57,141	86,935	668	10,000	-	-	-	-	10,000
Department of the Army	17,689	6,750	10,550	389	-	-	-	-	-	-
Department of the Navy	36,430	18,719	17,711	-	-	-	-	-	-	-
Department of the Air Force	20,961	15,821	5,140	-	-	-	-	-	-	-
Defense agencies	69,664	15,851	53,534	279	10,000	-	-	-	-	10,000
Department of Education	-	-	-	-	6,219	-	-	-	-	6,219
Department of Energy	59,262	30,725	28,537	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	13,474	12,947	527	-	41,907	959	3,231	1,330	18,349	18,038
Alcohol, Drug Abuse & Mental Hlth Admin	845	410	435	-	28,126	959	3,231	1,330	18,349	4,257
National Institutes of Health	12,629	12,537	92	-	13,781	-	-	-	-	13,781
Department of the Interior, total	3,457	757	2,700	-	200	-	-	-	-	200
Geological Survey	3,457	757	2,700	-	200	-	-	-	-	200
Department of Justice, total	100	100	-	-	3,786	50	50	200	2,000	1,486
Office of Justice Programs	100	100	-	-	3,786	50	50	200	2,000	1,486
Department of Labor, total	-	-	-	-	300	-	300	-	-	-
Employment and Training Admin	-	-	-	-	300	-	300	-	-	-
Department of State	-	-	-	-	7,734	387	1,933	1,547	773	3,094
Department of the Treasury, total	2,281	1,939	342	-	1,295	-	842	-	-	453
Internal Revenue Service	2,281	1,939	342	-	1,295	-	842	-	-	453
Other agencies										
Agency for Internat'l Development	-	-	-	-	1,487	-	804	100	-	583
Environmental Protection Agency	3,805	-	3,805	-	230	-	230	-	-	-
National Aeronautics & Space Admin	27,863	1,066	24,726	2,069	95	-	-	-	84	11
National Science Foundation	191,226	81,105	110,121	-	43,712	8,970	11,444	3,449	3,849	16,000
Smithsonian Institution	-	-	-	-	30,632	3,367	-	-	-	27,265

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-52. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	530,354	216,013	289,679	4,662	172,451	14,709	39,554	7,468	27,799	82,921
Departments										
Department of Agriculture, total	4,813	4,174	639	-	25,981	-	18,023	167	2,629	162
Agricultural Research Service	710	71	639	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	8,247	-	6,150	-	2,097	-
Economic Research Service	-	-	-	-	8,747	-	8,445	30	110	162
Forest Service	3,111	3,111	-	-	7,987	-	3,428	137	422	-
Nat'l Agricultural Statistics Svc	992	992	-	-	-	-	-	-	-	-
Department of Commerce, total	1,574	1,461	113	-	-	-	-	-	-	-
Bureau of the Census	1,199	1,199	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	375	262	113	-	-	-	-	-	-	-
Department of Defense, total	140,248	53,213	84,703	2,332	-	-	-	-	-	-
Department of the Army	23,657	7,681	15,680	296	-	-	-	-	-	-
Department of the Navy	39,424	20,869	18,555	-	-	-	-	-	-	-
Department of the Air Force	24,420	17,692	6,728	-	-	-	-	-	-	-
Defense agencies	52,747	6,971	43,740	2,036	-	-	-	-	-	-
Department of Education	-	-	-	-	5,315	-	-	-	-	5,315
Department of Energy	81,950	48,072	33,878	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	14,504	13,936	568	-	43,541	952	3,192	1,418	18,846	19,133
Alcohol, Drug Abuse & Mental Hlth Admin	911	442	469	-	28,707	952	3,192	1,418	18,846	4,299
National Institutes of Health	13,593	13,494	99	-	14,834	-	-	-	-	14,834
Department of the Interior, total	3,673	916	2,757	-	300	-	-	-	-	300
Geological Survey	3,673	916	2,757	-	300	-	-	-	-	300
Department of Justice, total	400	200	200	-	4,258	50	150	200	1,600	2,858
Office of Justice Programs	400	200	200	-	4,258	50	150	200	1,600	2,858
Department of Labor, total	-	-	-	-	225	-	225	-	-	-
Employment and Training Admin	-	-	-	-	225	-	225	-	-	-
Department of State	-	-	-	-	7,784	389	1,946	1,957	[illegible]	3,114
Department of the Treasury, total	2,281	1,939	342	-	1,295	-	842	-	-	453
Internal Revenue Service	2,281	1,939	342	-	1,295	-	842	-	-	453
Other agencies										
Agency for Internat'l Development	-	-	-	-	1,421	-	753	135	-	731
Environmental Protection Agency	4,898	-	4,898	-	384	-	384	-	-	-
National Aeronautics & Space Admin	31,365	1,200	27,836	2,330	107	-	-	-	94	13
National Science Foundation	224,657	90,902	133,755	-	58,491	9,634	14,037	3,991	4,452	18,377
Smithsonian Institution	-	-	-	-	36,149	3,684	-	-	-	32,465

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-53. Federal obligations for applied research, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	10,453,273	3,587,266	2,312,379	367,320	2,593,374	580,819	738,082	89,005	76,069	108,959
Departments										
Department of Agriculture, total	550,066	355,661	3,943	-	182,053	-	5,640	-	1,235	1,534
Agricultural Cooperative Service	2,721	2,498	-	-	223	-	-	-	-	-
Agricultural Marketing Service 2/	1,700	1,497	-	-	79	-	89	-	35	-
Agricultural Research Service	218,215	202,188	-	-	13,073	-	1,407	-	38	1,509
Animal & Plant Health Inspection Svc	7,970	7,528	-	-	387	-	55	-	-	-
Cooperative State Research Service	170,517	6,443	2,019	-	157,272	-	4,024	-	759	-
Economic Research Service	43,459	42,351	-	-	1,108	-	-	-	-	-
Federal Grain Inspection Service	222	104	-	-	93	-	25	-	-	-
Forest Service	93,500	84,982	201	-	7,849	-	40	-	403	25
Human Nutrition Information Service	9,031	5,800	1,700	-	1,531	-	-	-	-	-
Nat'l Agricultural Statistics Svc	1,869	1,628	23	-	218	-	-	-	-	-
Off of Internat'l Cooperation & Development	862	642	-	-	220	-	-	-	-	-
Department of Commerce, total	345,612	286,972	9,107	25	42,711	4	300	25	6,396	72
Bureau of the Census	2,053	2,053	-	-	-	-	-	-	-	-
Economic Development Administration	1,188	764	235	-	130	-	59	-	-	-
Nat'l Institute of Standards & Tech	83,185	77,892	760	-	4,414	4	78	-	-	37
Nat'l Oceanic & Atmospheric Admin	252,408	199,485	8,112	25	38,167	-	163	25	6,396	35
Nat'l Telecomm & Information Admin	6,778	6,778	-	-	-	-	-	-	-	-
Department of Defense, total	2,581,608	908,929	1,220,939	30,636	271,501	66,711	57,744	14,260	-	10,888
Department of the Army	595,162	376,919	165,838	6,525	25,512	2,990	10,972	1,380	-	5,026
Department of the Navy	442,562	220,693	152,392	14,111	31,666	4,941	17,217	485	-	1,057
Department of the Air Force	579,299	158,233	340,371	-	63,050	-	15,937	-	-	1,708
Defense agencies	964,585	153,084	562,338	10,000	151,273	58,780	13,618	12,395	-	3,097
Department of Education	125,330	14,905	11,902	-	73,033	-	23,357	-	1,943	190
Department of Energy	1,065,687	114,980	142,377	249,305	144,501	352,785	20,820	37,361	3,370	188
Dept of Hlth & Human Services, total	2,818,062	636,331	143,544	5,700	1,520,963	8,091	438,798	9,448	39,892	15,295
Administration for Children and Families 3/	7,728	381	1,507	-	2,421	-	2,462	-	957	-
Agency for Health Care Policy & Research 4/	44,200	11,556	8,162	-	20,777	-	3,360	-	7	338
Alcohol, Drug Abuse & Mental Hlth Admin	415,017	86,114	5,255	-	258,522	-	42,928	-	19,908	2,290
Centers for Disease Control	95,600	38,508	5,228	-	29,632	-	22,057	-	175	-
Food & Drug Administration	99,000	92,070	-	-	5,940	-	990	-	-	-
Health Care Financing Admin	49,111	273	13,316	-	8,369	-	25,283	-	1,733	137
Health Resources and Services Administration	10,706	1,860	-	-	6,265	-	2,159	-	422	-
National Institutes of Health	2,074,100	393,831	107,537	5,700	1,186,398	8,091	334,324	9,448	16,334	12,437
Office of Asst Secy for Health	5,844	5,844	-	-	-	-	-	-	-	-
Office of the Secretary	4,966	1,421	2,220	-	539	-	761	-	-	25
Social Security Administration	11,790	4,473	319	-	2,100	-	4,474	-	356	68
Dept of Housing & Urban Development	6,595	6,123	345	-	16	-	111	-	-	-
Department of the Interior, total	269,783	234,679	9,105	1,948	22,642	-	253	-	639	517
Bureau of Land Management	2,100	2,000	-	-	100	-	-	-	-	-
Bureau of Mines	49,265	37,360	7,014	1,793	2,959	-	-	-	139	-
Bureau of Reclamation	5,226	4,933	-	-	186	-	107	-	-	-
Geological Survey	134,164	121,871	2,052	-	9,741	-	-	-	500	-
Minerals Management Service	1,855	1,014	39	155	125	-	5	-	-	517
National Park Service	20,087	14,300	-	-	5,646	-	141	-	-	-
Off of Surface Mining Reclamation & Enforcement	686	1	-	-	685	-	-	-	-	-
US Fish & Wildlife Service	56,400	53,200	-	-	3,200	-	-	-	-	-
Department of Justice, total	11,069	2,074	822	-	2,565	-	3,429	-	2,179	-
Drug Enforcement Administration	354	21	333	-	-	-	-	-	-	-
Federal Prison System	1,800	1,625	-	-	175	-	-	-	-	-
Immigration & Naturalization Svc	400	40	360	-	-	-	-	-	-	-
Office of Justice Programs	8,515	388	129	-	2,390	-	3,429	-	2,179	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-53. Federal obligations for applied research, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	21,333	6,283	5,124	-	5,604	-	1,836	-	2,457	29
Bureau of Labor Statistics	7,300	2,500	-	-	4,800	-	-	-	-	-
Employment Standards Administration	53	53	-	-	-	-	-	-	-	-
Employment and Training Admin	5,706	400	300	-	764	-	1,756	-	2,457	29
Occupational Safety & Health Admin	2,526	378	2,148	-	-	-	-	-	-	-
Office of the Secretary	3,338	2,147	1,071	-	40	-	80	-	-	-
Pension Benefit Guaranty Corporation	300	300	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,110	505	1,605	-	-	-	-	-	-	-
Department of State	1,165	164	67	-	900	-	26	1	-	7
Department of Transportation, total	118,945	35,104	49,753	-	12,483	-	4,480	6,543	9,930	652
Coast Guard	5,058	3,442	1,616	-	-	-	-	-	-	-
Federal Aviation Administration	26,125	15,929	3,653	-	-	-	-	6,543	-	-
Federal Highway Administration	57,417	1,312	36,925	-	8,603	-	-	-	9,930	647
Federal Railroad Administration	8,464	4,991	705	-	170	-	2,598	-	-	-
Maritime Administration	900	278	622	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	16,930	7,248	4,085	-	3,710	-	1,882	-	-	5
Office of the Secretary	1,670	188	1,482	-	-	-	-	-	-	-
Research & Special Programs Admin	2,381	1,716	665	-	-	-	-	-	-	-
Department of the Treasury, total	15,346	9,951	5,168	-	-	227	-	-	-	-
Bureau of Engraving and Printing	1,364	1,137	-	-	-	227	-	-	-	-
Internal Revenue Service	13,104	8,478	4,626	-	-	-	-	-	-	-
Office of Protective Research	478	236	242	-	-	-	-	-	-	-
United States Customs Service	400	100	300	-	-	-	-	-	-	-
Department of Veterans Affairs	199,400	198,600	-	-	800	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1,513	1,513	-	-	-	-	-	-	-	-
Agency for Internat'l Development	300,188	18,940	25,787	-	65,056	-	118,948	-	-	71,457
Appalachian Regional Commission	401	9	142	-	100	-	40	-	110	-
Consumer Product Safety Commission	440	365	34	-	41	-	-	-	-	-
Environmental Protection Agency	241,610	89,255	92,740	-	40,384	-	12,475	-	6,756	-
Federal Communications Commission	1,329	1,329	-	-	-	-	-	-	-	-
Federal Trade Commission	459	459	-	-	-	-	-	-	-	-
General Services Administration	665	665	-	-	-	-	-	-	-	-
International Trade Commission	9,065	9,065	-	-	-	-	-	-	-	-
Library of Congress	1,166	1,166	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	1,423,765	585,278	562,848	-	113,906	119,776	36,638	127	1,144	4,048
National Archives & Records Admin	100	80	-	-	-	20	-	-	-	-
National Science Foundation	103,259	647	12,013	-	84,433	104	6,044	-	18	-
Nuclear Regulatory Commission	217,524	49,012	16,446	79,706	9,252	33,076	4,710	21,240	-	4,082
Office of Thrift Supervision 5/	4,126	4,126	-	-	-	-	-	-	-	-
Tennessee Valley Authority	16,994	14,131	-	-	430	-	2,433	-	-	-
US Arms Control & Disarmament Agency	218	20	173	-	-	25	-	-	-	-
United States Information Agency	450	450	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-54. Federal obligations for applied research, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	11,626,031	3,948,603	2,639,910	375,758	2,933,294	601,547	842,262	101,844	81,331	101,482
Departments										
Department of Agriculture, total	614,214	382,390	3,403	30	219,317	-	6,309	-	1,329	1,436
Agricultural Cooperative Service	2,870	2,647	-	-	223	-	-	-	-	-
Agricultural Marketing Service 2/	1,972	1,972	-	-	-	-	-	-	-	-
Agricultural Research Service	235,634	216,277	-	-	16,400	-	1,510	-	41	1,406
Animal & Plant Health Inspection Svc	8,713	8,181	-	-	437	-	95	-	-	-
Cooperative State Research Service	206,407	8,576	2,546	-	189,815	-	4,657	-	813	-
Economic Research Service	46,730	45,699	-	-	1,031	-	-	-	-	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-	-
Forest Service	99,000	88,158	237	-	10,053	-	47	-	475	30
Human Nutrition Information Service	9,998	8,518	620	-	860	-	-	-	-	-
Nat'l Agricultural Statistics Svc	1,959	1,656	-	30	273	-	-	-	-	-
Off of Internat'l Cooperation & Development	597	372	-	-	225	-	-	-	-	-
Department of Commerce, total	413,353	326,584	30,977	-	48,141	4	437	-	7,116	94
Bureau of the Census	2,425	2,425	-	-	-	-	-	-	-	-
Economic Development Administration	1,190	755	-	-	245	-	190	-	-	-
Nat'l Institute of Standards & Tech	110,251	84,260	22,809	-	3,063	4	78	-	-	37
Nat'l Oceanic & Atmospheric Admin	292,439	232,096	8,168	-	44,833	-	169	-	7,116	57
Nat'l Telecomm & Information Admin	7,048	7,048	-	-	-	-	-	-	-	-
Department of Defense, total	2,665,488	890,564	1,280,848	30,315	303,483	68,600	66,715	13,920	-	11,043
Department of the Army	607,829	360,142	195,989	1,535	27,813	4,641	12,253	755	-	4,701
Department of the Navy	481,655	239,720	167,664	15,412	34,679	3,372	18,785	530	-	1,493
Department of the Air Force	527,249	144,016	309,789	-	57,385	-	14,505	-	-	1,554
Defense agencies	1,048,755	146,686	607,406	13,368	183,606	60,587	21,172	12,635	-	3,295
Department of Education	148,676	16,429	13,235	-	81,374	2,367	33,219	-	2,052	-
Department of Energy	1,237,218	153,378	201,510	255,648	170,150	369,544	36,362	46,091	4,273	262
Dept of Hlth & Human Services, total	3,158,609	699,850	161,253	5,838	1,742,178	8,301	467,321	9,669	47,646	16,553
Administration for Children and Families 3/	8,944	438	1,442	-	4,047	-	2,669	-	348	-
Agency for Health Care Policy & Research 4/	87,200	20,929	17,049	-	41,891	-	6,807	-	10	514
Alcohol, Drug Abuse & Mental Hlth Admin	478,097	95,564	6,186	-	301,775	-	48,550	-	23,125	2,897
Centers for Disease Control	109,600	50,608	6,000	-	29,632	-	23,160	-	200	-
Food & Drug Administration	110,000	102,789	-	-	6,600	-	611	-	-	-
Health Care Financing Admin	69,778	347	18,256	-	10,426	-	34,065	-	6,458	226
Health Resources and Services Administration	9,223	1,473	-	-	5,650	-	2,100	-	-	-
National Institutes of Health	2,248,100	404,831	110,467	5,838	1,335,907	8,301	343,532	9,669	16,784	12,771
Office of Asst Secy for Health	9,631	9,631	-	-	-	-	-	-	-	-
Office of the Secretary	8,928	1,500	1,528	-	4,000	-	1,300	-	500	100
Social Security Administration	19,108	11,740	325	-	2,250	-	4,527	-	221	45
Dept of Housing & Urban Development	11,400	6,590	4,659	-	23	-	128	-	-	-
Department of the Interior, total	316,021	269,147	16,813	1,861	26,568	-	200	-	744	688
Bureau of Land Management	2,719	1,368	-	-	1,351	-	-	-	-	-
Bureau of Mines	59,110	40,450	14,124	1,810	2,632	-	-	-	94	-
Bureau of Reclamation	7,700	7,700	-	-	-	-	-	-	-	-
Geological Survey	153,640	140,057	2,181	-	10,752	-	-	-	650	-
Minerals Management Service	2,582	1,071	508	51	264	-	-	-	-	688
National Park Service	25,200	18,300	-	-	6,700	-	200	-	-	-
Off of Surface Mining Reclamation & Enforcement	970	1	-	-	969	-	-	-	-	-
US Fish & Wildlife Service	64,100	60,200	-	-	3,900	-	-	-	-	-
Department of Justice, total	15,103	2,240	805	100	3,000	-	8,442	-	516	-
Drug Enforcement Administration	345	50	195	100	-	-	-	-	-	-
Federal Prison System	1,800	1,650	-	-	150	-	-	-	-	-
Immigration & Naturalization Svc	400	40	360	-	-	-	-	-	-	-
Office of Justice Programs	12,558	500	250	-	2,850	-	8,442	-	516	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-54. Federal obligations for applied research, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	24,487	6,177	7,601	-	5,645	-	2,064	-	3,000	-
Bureau of Labor Statistics	7,400	2,500	-	-	4,900	-	-	-	-	-
Employment Standards Administration	181	181	-	-	-	-	-	-	-	-
Employment and Training Admin	6,364	100	1,000	-	600	-	1,664	-	3,000	-
Occupational Safety & Health Admin	3,265	400	2,865	-	-	-	-	-	-	-
Office of the Secretary	4,382	2,115	1,722	-	145	-	400	-	-	-
Pension Benefit Guaranty Corporation	355	355	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,540	526	2,014	-	-	-	-	-	-	-
Department of State	1,196	195	67	-	900	-	26	-	-	8
Department of Transportation, total	145,618	42,590	65,306	158	14,768	-	10,366	6,663	3,843	1,924
Coast Guard	6,150	4,192	1,958	-	-	-	-	-	-	-
Federal Aviation Administration	28,013	15,882	5,518	-	-	-	-	6,613	-	-
Federal Highway Administration	66,922	1,050	45,582	158	10,918	-	4,647	-	3,343	1,224
Federal Railroad Administration	19,283	9,512	5,127	-	750	-	3,394	-	500	-
Maritime Administration	1,000	300	475	-	100	-	125	-	-	-
Nat'l Highway Traffic Safety Admin	21,368	10,021	5,447	-	3,000	-	2,200	-	-	700
Office of the Secretary	622	82	490	-	-	-	-	50	-	-
Research & Special Programs Admin	2,260	1,551	709	-	-	-	-	-	-	-
Department of the Treasury, total	18,043	12,578	5,236	-	-	229	-	-	-	-
Bureau of Engraving and Printing	3,095	2,866	-	-	-	229	-	-	-	-
Internal Revenue Service	13,945	9,319	4,626	-	-	-	-	-	-	-
Office of Protective Research	493	243	250	-	-	-	-	-	-	-
United States Customs Service	510	150	360	-	-	-	-	-	-	-
Department of Veterans Affairs	205,100	204,300	-	-	800	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1,528	1,528	-	-	-	-	-	-	-	-
Agency for Internat'l Development	279,416	14,395	21,572	-	48,247	-	133,569	-	-	61,633
Appalachian Regional Commission	302	56	40	-	-	-	-	-	206	-
Consumer Product Safety Commission	1,102	1,039	63	-	-	-	-	-	-	-
Environmental Protection Agency	245,976	98,440	82,356	-	34,160	-	21,670	-	9,350	-
Federal Communications Commission	1,561	1,561	-	-	-	-	-	-	-	-
Federal Trade Commission	493	493	-	-	-	-	-	-	-	-
International Trade Commission	10,906	10,906	-	-	-	-	-	-	-	-
Library of Congress	1,265	1,265	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	1,734,373	727,110	709,720	-	128,602	118,701	44,630	125	1,236	4,249
National Archives & Records Admin	255	130	-	-	-	125	-	-	-	-
National Science Foundation	114,907	835	13,432	-	94,587	125	5,908	-	20	-
Nuclear Regulatory Commission	229,578	50,948	20,934	81,808	10,896	33,526	2,498	25,376	-	3,592
Office of Thrift Supervision 5/	3,291	3,291	-	-	-	-	-	-	-	-
Tennessee Valley Authority	25,877	23,049	-	-	430	-	2,398	-	-	-
US Arms Control & Disarmament Agency	275	145	80	-	25	25	-	-	-	-
United States Information Agency	400	400	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-55. Federal obligations for applied research, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	12,475,458	4,393,423	2,911,395	395,593	3,023,432	607,365	855,846	105,916	74,891	107,597
Departments										
Department of Agriculture, total	613,818	399,958	6,998	30	202,546	-	1,733	-	1,118	1,435
Agricultural Cooperative Service	3,018	2,795	-	-	223	-	-	-	-	-
Agricultural Marketing Service 2/	2,115	2,115	-	-	-	-	-	-	-	-
Agricultural Research Service	249,380	229,948	-	-	16,400	-	1,583	-	43	1,406
Animal & Plant Health Inspection Svc	9,184	8,636	-	-	443	-	105	-	-	-
Cooperative State Research Service	184,626	8,908	2,518	-	172,585	-	-	-	615	-
Economic Research Service	53,732	52,700	-	-	1,032	-	-	-	-	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-	-
Forest Service	96,400	85,906	230	-	9,730	-	45	-	460	29
Human Nutrition Information Service	12,654	6,784	4,250	-	1,620	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,022	1,719	-	30	273	-	-	-	-	-
Off of Internat'l Cooperation & Development	353	113	-	-	240	-	-	-	-	-
Department of Commerce, total	418,073	357,575	25,144	-	34,778	4	178	-	300	94
Bureau of the Census	2,425	2,425	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	117,652	97,253	18,843	-	1,437	4	78	-	-	37
Nat'l Oceanic & Atmospheric Admin	290,948	250,849	6,301	-	33,341	-	100	-	300	57
Nat'l Telecomm & Information Admin	7,048	7,048	-	-	-	-	-	-	-	-
Department of Defense, total	2,883,483	1,023,679	1,355,179	27,455	345,594	42,686	70,841	3,480	-	14,569
Department of the Army	669,837	392,073	231,948	800	27,662	8,382	4,602	200	-	4,170
Department of the Navy	514,808	256,030	179,205	16,474	37,066	3,793	20,078	566	-	1,596
Department of the Air Force	639,010	174,543	375,455	-	69,549	-	17,580	-	-	1,883
Defense agencies	1,059,828	201,033	568,571	10,181	211,317	30,511	28,581	2,714	-	6,920
Department of Education	158,189	17,913	11,760	-	90,860	-	34,564	-	3,092	-
Department of Energy	1,211,765	193,782	167,066	266,079	121,397	384,383	19,304	56,609	3,010	135
Dept of Hlth & Human Services, total	3,252,143	730,198	153,910	6,080	1,826,139	8,644	455,203	10,069	45,115	16,785
Administration for Children and Families 3/	8,774	461	1,444	-	3,964	-	2,440	-	465	-
Agency for Health Care Policy & Research 4/	31,200	15,744	7,269	-	6,967	-	1,132	-	2	86
Alcohol, Drug Abuse & Mental Hlth Admin	512,739	100,898	6,726	-	324,857	-	52,640	-	24,412	3,206
Centers for Disease Control	113,300	52,825	6,300	-	29,632	-	24,318	-	225	-
Food & Drug Administration	125,300	116,529	-	-	7,518	-	1,253	-	-	-
Health Care Financing Admin	36,000	324	15,228	-	9,576	-	8,748	-	1,980	144
Health Resources and Services Administration	9,299	1,699	-	-	5,500	-	2,100	-	-	-
National Institutes of Health	2,384,500	421,576	115,036	6,080	1,434,575	8,644	357,742	10,069	17,479	13,299
Office of Asst Secy for Health	2,300	2,300	-	-	-	-	-	-	-	-
Office of the Secretary	5,037	1,500	1,537	-	1,000	-	1,000	-	-	-
Social Security Administration	23,694	16,342	370	-	2,550	-	3,830	-	552	50
Dept of Housing & Urban Development	13,202	5,474	6,310	-	-	-	1,418	-	-	-
Department of the Interior, total	309,859	271,732	8,524	1,800	25,728	-	375	-	200	1,500
Bureau of Land Management	4,851	2,441	-	-	2,410	-	-	-	-	-
Bureau of Mines	43,026	35,809	4,487	1,500	1,230	-	-	-	-	-
Bureau of Reclamation	10,600	10,160	-	-	315	-	125	-	-	-
Geological Survey	153,146	144,090	2,220	-	6,636	-	-	-	200	-
Minerals Management Service	5,714	1,781	1,233	300	900	-	-	-	-	1,500
National Park Service	29,000	21,250	-	-	7,500	-	250	-	-	-
Off of Surface Mining Reclamation & Enforcement	2,922	1	584	-	2,337	-	-	-	-	-
US Fish & Wildlife Service	60,600	56,200	-	-	4,400	-	-	-	-	-
Department of Justice, total	12,287	2,440	1,360	-	2,850	-	4,737	-	900	-
Drug Enforcement Administration	795	50	500	-	-	-	245	-	-	-
Federal Prison System	1,700	1,550	-	-	150	-	-	-	-	-
Immigration & Naturalization Svc	400	40	360	-	-	-	-	-	-	-
Office of Justice Programs	9,392	800	500	-	2,700	-	4,492	-	900	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-55. Federal obligations for applied research, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	29,823	7,024	9,745	6,852	980	-	2,722	-	2,500	-
Bureau of Labor Statistics	7,700	2,900	-	4,800	-	-	-	-	-	-
Employment Standards Administration	139	139	-	-	-	-	-	-	-	-
Employment and Training Admin	5,384	200	950	-	300	-	1,434	-	2,500	-
Occupational Safety & Health Admin	3,265	400	2,865	-	-	-	-	-	-	-
Office of the Secretary	10,285	2,387	5,930	-	680	-	1,288	-	-	-
Pension Benefit Guaranty Corporation	450	450	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2,600	548	-	2,052	-	-	-	-	-	-
Department of State	1,203	203	66	-	900	-	26	1	-	7
Department of Transportation, total	135,962	43,778	58,713	122	11,572	-	10,386	4,850	4,592	1,949
Coast Guard	7,100	4,761	2,339	-	-	-	-	-	-	-
Federal Aviation Administration	25,793	13,643	7,300	-	-	-	-	4,850	-	-
Federal Highway Administration	52,020	1,390	35,791	122	7,572	-	3,604	-	2,592	949
Federal Railroad Administration	21,425	9,380	5,485	-	700	-	3,860	-	2,000	-
Maritime Administration	2,000	525	1,125	-	100	-	250	-	-	-
Nat'l Highway Traffic Safety Admin	23,743	11,135	5,936	-	3,000	-	2,672	-	-	1,000
Office of the Secretary	837	100	737	-	-	-	-	-	-	-
Research & Special Programs Admin	3,044	2,844	-	-	200	-	-	-	-	-
Department of the Treasury, total	18,406	12,801	5,376	-	-	229	-	-	-	-
Bureau of Engraving and Printing	3,306	3,077	-	-	-	229	-	-	-	-
Internal Revenue Service	13,945	9,319	4,626	-	-	-	-	-	-	-
Office of Protective Research	505	255	250	-	-	-	-	-	-	-
United States Customs Service	650	150	500	-	-	-	-	-	-	-
Department of Veterans Affairs	182,700	181,900	-	-	800	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1,416	1,416	-	-	-	-	-	-	-	-
Agency for Internat'l Development	288,860	10,649	22,039	-	33,886	-	159,955	-	-	62,331
Consumer Product Safety Commission	1,035	1,005	30	-	-	-	-	-	-	-
Environmental Protection Agency	280,942	82,722	107,435	-	54,346	-	23,750	-	12,689	-
Federal Communications Commission	1,414	1,414	-	-	-	-	-	-	-	-
Federal Trade Commission	519	519	-	-	-	-	-	-	-	-
International Trade Commission	11,790	11,790	-	-	-	-	-	-	-	-
Library of Congress	1,314	1,314	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	2,231,487	952,794	933,926	-	144,768	136,625	57,423	122	1,353	4,476
National Archives & Records Admin	310	60	-	-	-	250	-	-	-	-
National Science Foundation	136,324	1,018	16,184	115	112,052	150	6,783	-	22	-
Nuclear Regulatory Commission	250,938	56,258	20,730	86,960	13,760	34,244	3,960	30,710	-	4,316
Office of Thrift Supervision 5/	3,494	3,494	-	-	-	-	-	-	-	-
Tennessee Valley Authority	22,052	19,163	-	-	451	-	2,438	-	-	-
US Arms Control & Disarmament Agency	2,000	700	900	100	25	150	50	75	-	-
United States Information Agency	650	650	-	-	-	-	-	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

5/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-56. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Field of science and engineering	1990	Estimates	
		1991	1992
Total, all fields	10,453,273	11,626,031	12,475,458
Life sciences, total	3,660,276	4,060,557	4,173,583
Biological (excluding environmental)	1,402,478	1,517,113	1,621,814
Environmental biology	174,019	216,999	207,266
Agricultural	390,861	406,887	431,058
Medical	1,532,723	1,753,938	1,775,940
Life sciences, n.e.c.	160,195	165,620	137,505
Psychology, total	233,544	250,379	269,831
Biological aspects	65,778	74,934	79,003
Social aspects	118,050	121,055	132,169
Psychological sciences, n.e.c.	49,716	54,390	58,659
Physical sciences, total	1,147,215	1,161,080	1,378,987
Astronomy	17,214	20,331	24,617
Chemistry	259,595	283,849	284,400
Physics	780,593	763,352	917,635
Physical sciences, n.e.c.	89,813	93,548	152,335
Environmental sciences, total	899,274	1,037,055	1,118,056
Atmospheric	329,675	389,598	428,916
Geological	221,389	251,722	232,925
Oceanography	220,393	254,285	257,342
Environmental sciences, n.e.c.	127,817	141,450	198,873
Mathematics & computer sciences, total	433,854	493,336	496,689
Mathematics	64,998	73,921	75,166
Computer sciences	336,919	381,220	382,432
Mathematics & computer sciences, n.e.c.	31,937	38,195	39,091
Engineering, total	3,233,643	3,644,363	4,146,766
Aeronautical	657,452	781,218	891,787
Astronautical	518,490	557,537	874,000
Chemical	166,004	187,947	146,997
Civil	270,201	288,967	297,985
Electrical	493,105	513,459	525,245
Mechanical	176,907	194,784	220,121
Metallurgy & materials	294,343	381,018	305,368
Engineering, n.e.c.	657,141	739,433	885,263
Social sciences, total	483,992	602,847	533,250
Anthropology	1,851	2,070	2,373
Economics	160,051	138,381	160,035
Political science	6,792	7,790	9,591
Sociology	91,989	139,392	91,593
Social sciences, n.e.c.	223,309	285,214	269,658
Other sciences, n.e.c.	361,475	376,414	358,296

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-57. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	10,453,273	3,660,276	233,544	1,147,215	899,274	433,854	3,233,643	483,992	361,475
Departments									
Department of Agriculture, total	550,066	395,176	177	34,627	7,677	7,445	25,428	79,536	-
Agricultural Cooperative Service	2,721	-	-	-	-	-	-	2,721	-
Agricultural Marketing Service 1/	1,700	1,700	-	-	-	-	-	-	-
Agricultural Research Service	218,215	192,012	-	19,715	854	892	4,742	-	-
Animal & Plant Health Inspection Svc	7,970	7,970	-	-	-	-	-	-	-
Cooperative State Research Service	170,517	123,090	-	8,143	530	-	11,401	27,353	-
Economic Research Service	43,459	-	-	-	-	-	-	43,459	-
Federal Grain Inspection Service	222	222	-	-	-	-	-	-	-
Forest Service	93,500	60,289	177	6,769	6,293	4,684	9,285	6,003	-
Human Nutrition Information Service	9,031	9,031	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	1,869	-	-	-	-	1,869	-	-	-
Off of Internat'l Cooperation & Development	862	862	-	-	-	-	-	-	-
Department of Commerce, total	345,612	14,303	342	42,246	217,305	12,660	51,565	3,226	3,965
Bureau of the Census	2,053	-	179	-	-	1,294	-	529	51
Economic Development Administration	1,188	-	-	-	-	-	-	1,188	-
Nat'l Institute of Standards & Tech	83,185	-	-	28,534	157	9,525	44,739	230	-
Nat'l Oceanic & Atmospheric Admin	252,408	14,303	163	13,712	217,148	1,818	3,856	1,279	129
Nat'l Telecomm & Information Admin	6,778	-	-	-	-	23	2,970	-	3,785
Department of Defense, total	2,581,608	185,383	70,009	328,144	139,705	308,798	1,404,278	1,760	143,531
Department of the Army	595,162	103,677	34,187	63,903	12,111	42,578	319,020	1,760	17,926
Department of the Navy	442,562	12,967	13,055	48,822	15,356	47,052	301,504	-	3,806
Department of the Air Force	579,299	45,535	22,767	63,554	45,555	24,759	377,129	-	-
Defense agencies	964,585	23,204	-	151,865	66,683	194,409	406,625	-	121,799
Department of Education	125,330	17,289	5,786	-	-	805	4,959	96,491	-
Department of Energy	1,065,687	44,288	-	548,123	162,816	4,804	295,486	-	10,170
Dept of Hlth & Human Services, total	2,818,062	2,313,336	133,983	29,294	-	6,476	19,670	176,242	139,061
Administration for Children and Families 2/	7,728	-	-	-	-	-	-	7,728	-
Agency for Health Care Policy & Research 3/	44,200	-	-	-	-	-	-	44,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	415,017	253,014	97,684	5,424	-	1,102	-	48,699	9,094
Centers for Disease Control	95,600	95,600	-	-	-	-	-	-	-
Food & Drug Administration	99,000	99,000	-	-	-	-	-	-	-
Health Care Financing Admin	49,111	-	-	-	-	-	-	49,111	-
Health Resources and Services Administration	10,706	10,706	-	-	-	-	-	-	-
National Institutes of Health	2,074,100	1,849,172	36,299	23,870	-	5,074	19,670	10,048	129,967
Office of Asst Secy for Health	5,844	5,844	-	-	-	-	-	-	-
Office of the Secretary	4,966	-	-	-	-	300	-	4,666	-
Social Security Administration	11,790	-	-	-	-	-	-	11,790	-
Dept of Housing & Urban Development	6,595	-	-	172	-	61	91	5,998	273
Department of the Interior, total	269,783	77,260	-	18,483	109,346	9,669	52,795	2,131	99
Bureau of Land Management	2,100	2,000	-	-	100	-	-	-	-
Bureau of Mines	49,265	-	-	-	7,655	-	41,610	-	-
Bureau of Reclamation	5,226	1,168	-	1,203	267	-	2,489	-	99
Geological Survey	134,164	1,283	-	17,095	99,470	9,475	6,841	-	-
Minerals Management Service	1,855	-	-	-	-	-	1,855	-	-
National Park Service	20,087	15,980	-	-	1,854	122	-	2,131	-
Off of Surface Mining Reclamation & Enforcement	686	429	-	185	-	72	-	-	-
US Fish & Wildlife Service	56,400	56,400	-	-	-	-	-	-	-
Department of Justice, total	11,069	374	678	-	-	90	575	9,352	-
Drug Enforcement Administration	354	179	-	-	-	-	175	-	-
Federal Prison System	1,800	-	400	-	-	-	-	1,400	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	8,515	195	278	-	-	90	-	7,952	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-57. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	21,333	-	-	-	-	-	-	21,333	-
Bureau of Labor Statistics	7,300	-	-	-	-	-	-	7,300	-
Employment Standards Administration	53	-	-	-	-	-	-	53	-
Employment and Training Admin	5,706	-	-	-	-	-	-	5,706	-
Occupational Safety & Health Admin	2,526	-	-	-	-	-	-	2,526	-
Office of the Secretary	3,338	-	-	-	-	-	-	3,338	-
Pension Benefit Guaranty Corporation	300	-	-	-	-	-	-	300	-
Pension & Welfare Benefits Admin	2,110	-	-	-	-	-	-	2,110	-
Department of State	1,165	-	-	-	-	-	-	1,165	-
Department of Transportation, total	118,945	2,000	-	9,143	4,820	7,262	91,885	3,835	-
Coast Guard	5,058	-	-	170	-	1,450	2,785	653	-
Federal Aviation Administration	26,125	-	-	-	-	-	26,125	-	-
Federal Highway Administration	57,417	-	-	8,373	4,750	3,362	40,455	477	-
Federal Railroad Administration	8,464	-	-	-	-	-	8,126	338	-
Maritime Administration	900	-	-	-	70	10	820	-	-
Nat'l Highway Traffic Safety Admin	16,930	2,000	-	-	-	2,440	10,273	2,217	-
Office of the Secretary	1,670	-	-	600	-	-	920	150	-
Research & Special Programs Admin	2,381	-	-	-	-	-	2,381	-	-
Department of the Treasury, total	15,346	242	236	1,764	-	8,360	-	4,744	-
Bureau of Engraving and Printing	1,364	-	-	1,364	-	-	-	-	-
Internal Revenue Service	13,104	-	-	-	-	8,360	-	4,744	-
Office of Protective Research	478	242	236	-	-	-	-	-	-
United States Customs Service	400	-	-	400	-	-	-	-	-
Department of Veterans Affairs	199,400	180,383	13,949	-	-	-	5,068	-	-
Other agencies									
Advisory Comm on Intergov't Relations	1,513	-	-	-	-	-	-	1,513	-
Agency for Internat'l Development	300,188	205,053	-	-	419	2,840	4,324	52,319	35,233
Appalachian Regional Commission	401	-	-	-	-	-	-	-	401
Consumer Product Safety Commission	440	-	-	279	-	-	161	-	-
Environmental Protection Agency	241,610	107,070	1,176	29,818	49,846	4,112	45,308	-	4,280
Federal Communications Commission	1,329	-	-	-	-	70	851	408	-
Federal Trade Commission	459	-	-	-	-	-	-	459	-
General Services Administration	665	-	-	-	-	-	665	-	-
International Trade Commission	9,065	-	-	-	-	-	-	9,065	-
Library of Congress	1,166	-	-	-	-	-	-	-	1,166
National Aeronautics & Space Admin	1,423,765	104,337	7,135	84,084	201,779	46,166	974,627	-	5,637
National Archives & Records Admin	100	-	-	75	-	25	-	-	-
National Science Foundation	103,259	9,900	73	15,109	4,824	14,143	37,933	9,986	11,291
Nuclear Regulatory Commission	217,524	-	-	-	-	-	217,524	-	-
Office of Thrift Supervision 4/	4,126	-	-	-	-	-	-	4,126	-
Tennessee Valley Authority	16,994	3,882	-	5,854	737	-	-	153	6,368
US Arms Control & Disarmament Agency	218	-	-	-	-	68	-	150	-
United States Information Agency	450	-	-	-	-	-	450	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-58. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	11,626,031	4,060,557	250,379	1,161,080	1,037,055	493,336	3,644,363	602,847	376,414
Departments									
Department of Agriculture, total	614,214	444,711	188	39,002	8,794	7,889	27,358	86,272	-
Agricultural Cooperative Service	2,870	-	-	-	-	-	-	2,870	-
Agricultural Marketing Service 1/	1,972	1,972	-	-	-	-	-	-	-
Agricultural Research Service	235,634	206,406	-	22,099	1,549	970	4,610	-	-
Animal & Plant Health Inspection Svc	8,713	8,713	-	-	-	-	-	-	-
Cooperative State Research Service	206,407	152,856	-	9,736	582	-	12,917	30,316	-
Economic Research Service	46,730	-	-	-	-	-	-	46,730	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-
Forest Service	99,000	63,835	188	7,167	6,663	4,960	9,831	6,356	-
Human Nutrition Information Service	9,998	9,998	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	1,959	-	-	-	-	1,959	-	-	-
Off of Internat'l Cooperation & Development	597	597	-	-	-	-	-	-	-
Department of Commerce, total	413,353	14,624	359	47,933	255,353	23,266	65,133	3,227	3,458
Bureau of the Census	2,425	-	211	-	-	1,529	-	625	60
Economic Development Administration	1,190	-	-	-	-	-	-	1,190	-
Nat'l Institute of Standards & Tech	110,251	-	-	32,021	246	19,919	57,890	175	-
Nat'l Oceanic & Atmospheric Admin	292,439	14,624	148	15,912	255,107	1,818	3,458	1,237	135
Nat'l Telecomm & Information Admin	7,048	-	-	-	-	-	3,785	-	3,263
Department of Defense, total	2,665,488	191,390	65,705	302,660	122,317	345,686	1,502,093	1,586	134,051
Department of the Army	607,829	104,691	30,922	54,282	12,186	49,782	329,605	1,586	24,775
Department of the Navy	481,655	14,112	14,209	53,126	16,713	51,201	328,152	-	4,142
Department of the Air Force	527,249	41,147	20,574	55,932	41,147	26,362	342,087	-	-
Defense agencies	1,048,755	31,440	-	139,320	52,271	218,341	502,249	-	105,134
Department of Education	148,676	17,792	5,027	-	-	914	5,484	119,459	-
Department of Energy	1,237,218	125,304	-	552,496	182,878	4,722	359,293	-	12,525
Dept of Hlth & Human Services, total	3,158,609	2,534,682	152,415	32,349	-	7,164	21,334	260,558	150,107
Administration for Children and Families 2/	8,944	-	-	-	-	-	-	8,944	-
Agency for Health Care Policy & Research 3/	87,200	-	-	-	-	-	-	87,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	478,097	291,890	113,095	6,361	-	1,256	-	56,119	9,376
Centers for Disease Control	109,600	109,600	-	-	-	-	-	-	-
Food & Drug Administration	110,000	110,000	-	-	-	-	-	-	-
Health Care Financing Admin	69,778	-	-	-	-	-	-	69,778	-
Health Resources and Services Administration	9,223	9,223	-	-	-	-	-	-	-
National Institutes of Health	2,248,100	2,004,338	39,320	25,988	-	5,508	21,334	10,881	140,731
Office of Asst Secy for Health	9,631	9,631	-	-	-	-	-	-	-
Office of the Secretary	8,928	-	-	-	-	400	-	8,528	-
Social Security Administration	19,108	-	-	-	-	-	-	19,108	-
Dept of Housing & Urban Development	11,400	-	-	-	202	193	349	8,184	2,472
Department of the Interior, total	316,021	90,373	-	22,547	125,675	10,449	63,627	3,350	-
Bureau of Land Management	2,719	2,719	-	-	-	-	-	-	-
Bureau of Mines	59,110	-	-	-	9,928	-	49,182	-	-
Bureau of Reclamation	7,700	1,845	-	1,687	290	-	3,878	-	-
Geological Survey	153,640	1,809	-	20,860	112,587	10,249	7,985	150	-
Minerals Management Service	2,582	-	-	-	-	-	2,582	-	-
National Park Service	25,200	19,600	-	-	2,200	200	-	3,200	-
Off of Surface Mining Reclamation & Enforcement	970	300	-	-	670	-	-	-	-
US Fish & Wildlife Service	64,100	64,100	-	-	-	-	-	-	-
Department of Justice, total	15,103	-	700	-	-	200	745	13,458	-
Drug Enforcement Administration	345	-	-	-	-	-	345	-	-
Federal Prison System	1,800	-	400	-	-	-	-	1,400	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	12,558	-	300	-	-	200	-	12,058	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-58. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	24,487	-	-	-	-	-	-	24,487	-
Bureau of Labor Statistics	7,400	-	-	-	-	-	-	7,400	-
Employment Standards Administration	181	-	-	-	-	-	-	181	-
Employment and Training Admin	6,364	-	-	-	-	-	-	6,364	-
Occupational Safety & Health Admin	3,265	-	-	-	-	-	-	3,265	-
Office of the Secretary	4,382	-	-	-	-	-	-	4,382	-
Pension Benefit Guaranty Corporation	355	-	-	-	-	-	-	355	-
Pension & Welfare Benefits Admin	2,540	-	-	-	-	-	-	2,540	-
Department of State	1,196	-	-	-	-	-	-	1,196	-
Department of Transportation, total	145,618	924	527	8,832	4,451	7,407	117,815	5,662	-
Coast Guard	6,150	-	527	-	801	1,607	3,215	-	-
Federal Aviation Administration	28,013	-	-	-	-	-	28,013	-	-
Federal Highway Administration	66,922	-	-	7,474	3,650	3,198	51,710	890	-
Federal Railroad Administration	19,283	-	-	1,158	-	-	16,197	1,928	-
Maritime Administration	1,000	-	-	-	-	-	1,000	-	-
Nat'l Highway Traffic Safety Admin	21,368	924	-	-	-	2,602	15,070	2,772	-
Office of the Secretary	622	-	-	200	-	-	350	72	-
Research & Special Programs Admin	2,260	-	-	-	-	-	2,260	-	-
Department of the Treasury, total	18,043	250	243	3,155	-	8,897	450	5,048	-
Bureau of Engraving and Printing	3,095	-	-	2,645	-	-	450	-	-
Internal Revenue Service	13,945	-	-	-	-	8,897	-	5,048	-
Office of Protective Research	493	250	243	-	-	-	-	-	-
United States Customs Service	510	-	-	510	-	-	-	-	-
Department of Veterans Affairs	205,100	184,877	15,158	-	-	-	5,065	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,528	-	-	-	-	-	-	1,528	-
Agency for Internat'l Development	279,416	194,400	-	-	663	3,578	2,551	42,653	35,571
Appalachian Regional Commission	302	-	-	-	-	-	-	-	302
Consumer Product Safety Commission	1,102	-	-	178	-	-	924	-	-
Environmental Protection Agency	245,976	110,065	952	32,974	49,791	4,491	43,525	5	4,173
Federal Communications Commission	1,561	-	-	-	-	75	1,062	424	-
Federal Trade Commission	493	-	-	-	-	-	-	493	-
International Trade Commission	10,906	-	-	-	-	-	-	10,906	-
Library of Congress	1,265	-	-	-	-	-	-	-	1,265
National Aeronautics & Space Admin	1,734,373	131,558	9,029	91,053	280,570	53,264	1,155,285	-	13,614
National Archives & Records Admin	255	-	-	185	-	70	-	-	-
National Science Foundation	114,907	10,875	76	16,331	5,611	15,046	42,292	10,797	13,879
Nuclear Regulatory Commission	229,578	-	-	-	-	-	229,578	-	-
Office of Thrift Supervision 4/	3,291	-	-	-	-	-	-	3,291	-
Tennessee Valley Authority	25,877	8,732	-	11,240	750	-	-	158	4,997
US Arms Control & Disarmament Agency	275	-	-	145	-	25	-	105	-
United States Information Agency	400	-	-	-	-	-	400	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-59. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	12,475,458	4,173,583	269,831	1,378,987	1,118,056	496,689	4,146,766	533,250	358,296
Departments									
Department of Agriculture, total	613,818	444,774	183	39,544	8,726	7,879	24,315	88,397	-
Agricultural Cooperative Service	3,018	-	-	-	-	-	-	3,018	-
Agricultural Marketing Service 1/	2,115	2,115	-	-	-	-	-	-	-
Agricultural Research Service	249,380	218,446	-	23,388	1,640	1,027	4,879	-	-
Animal & Plant Health Inspection Svc	9,184	9,184	-	-	-	-	-	-	-
Cooperative State Research Service	184,626	139,530	-	9,177	598	-	9,863	25,458	-
Economic Research Service	53,732	-	-	-	-	-	-	53,732	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-
Forest Service	96,400	62,158	183	6,979	6,488	4,830	9,573	6,189	-
Human Nutrition Information Service	12,654	12,654	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,022	-	-	-	-	2,022	-	-	-
Off of Internat'l Cooperation & Development	353	353	-	-	-	-	-	-	-
Department of Commerce, total	418,073	10,527	349	48,432	260,763	23,294	69,205	2,045	3,458
Bureau of the Census	2,425	-	211	-	-	1,529	-	625	60
Nat'l Institute of Standards & Tech	117,652	-	-	35,120	358	19,947	62,044	183	-
Nat'l Oceanic & Atmospheric Admin	290,948	10,527	138	13,312	260,405	1,818	3,376	1,237	135
Nat'l Telecomm & Information Admin	7,048	-	-	-	-	-	3,785	-	3,263
Department of Defense, total	2,883,483	196,923	69,699	455,754	144,568	342,953	1,581,051	1,472	91,063
Department of the Army	669,837	91,524	28,808	93,356	23,008	57,548	358,919	1,472	15,304
Department of the Navy	514,808	15,084	15,187	56,782	17,864	54,724	350,739	-	4,428
Department of the Air Force	639,010	51,409	25,704	70,687	51,409	32,130	407,671	-	-
Defense agencies	1,059,828	39,006	-	234,929	52,287	198,553	463,722	-	71,331
Department of Education	158,189	18,355	5,357	-	-	974	5,844	127,659	-
Department of Energy	1,211,765	43,079	-	582,034	213,088	4,806	360,252	-	8,506
Dept of Hlth & Human Services, total	3,252,143	2,689,961	162,923	34,583	-	7,469	22,629	176,168	158,410
Administration for Children and Families 2/	8,774	-	-	-	-	-	-	8,774	-
Agency for Health Care Policy & Research 3/	31,200	-	-	-	-	-	-	31,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	512,739	313,813	121,218	7,018	-	1,327	-	60,222	9,141
Centers for Disease Control	113,300	113,300	-	-	-	-	-	-	-
Food & Drug Administration	125,300	125,300	-	-	-	-	-	-	-
Health Care Financing Admin	36,000	-	-	-	-	-	-	36,000	-
Health Resources and Services Administration	9,299	9,299	-	-	-	-	-	-	-
National Institutes of Health	2,384,500	2,125,949	41,705	27,565	-	5,842	22,629	11,541	149,269
Office of Asst Secy for Health	2,300	2,300	-	-	-	-	-	-	-
Office of the Secretary	5,037	-	-	-	-	300	-	4,737	-
Social Security Administration	23,694	-	-	-	-	-	-	23,694	-
Dept of Housing & Urban Development	13,202	-	-	-	151	660	320	7,378	4,693
Department of the Interior, total	309,059	92,139	-	26,730	121,030	11,455	54,743	3,762	-
Bureau of Land Management	4,851	4,739	-	-	-	-	-	112	-
Bureau of Mines	43,026	-	-	-	6,473	-	36,553	-	-
Bureau of Reclamation	10,600	1,405	-	4,965	380	-	3,850	-	-
Geological Survey	153,146	1,995	-	21,765	109,877	11,155	8,204	150	-
Minerals Management Service	5,714	-	-	-	-	-	5,714	-	-
National Park Service	29,000	22,500	-	-	2,700	300	-	3,500	-
Off of Surface Mining Reclamation & Enforcement	2,922	900	-	-	1,600	-	422	-	-
US Fish & Wildlife Service	60,600	60,600	-	-	-	-	-	-	-
Department of Justice, total	12,287	-	1,625	-	125	500	745	9,292	-
Drug Enforcement Administration	795	-	325	-	125	-	345	-	-
Federal Prison System	1,700	-	400	-	-	-	-	1,300	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	9,392	-	900	-	-	500	-	7,992	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-59. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	29,823	-	-	-	-	-	-	29,823	-
Bureau of Labor Statistics	7,700	-	-	-	-	-	-	7,700	-
Employment Standards Administration	139	-	-	-	-	-	-	139	-
Employment and Training Admin	5,384	-	-	-	-	-	-	5,384	-
Occupational Safety & Health Admin	3,265	-	-	-	-	-	-	3,265	-
Office of the Secretary	10,285	-	-	-	-	-	-	10,285	-
Pension Benefit Guaranty Corporation	450	-	-	-	-	-	-	450	-
Pension & Welfare Benefits Admin	2,600	-	-	-	-	-	-	2,600	-
Department of State	1,203	-	-	-	-	-	-	1,203	-
Department of Transportation, total	135,962	1,097	702	7,825	4,075	7,051	108,322	6,690	200
Coast Guard	7,100	-	702	-	940	1,800	3,658	-	-
Federal Aviation Administration	25,793	-	-	-	-	-	25,793	-	-
Federal Highway Administration	52,020	-	-	5,811	2,835	2,487	40,195	692	-
Federal Railroad Administration	21,425	-	-	1,714	-	-	17,140	2,571	-
Maritime Administration	2,000	-	-	-	300	-	1,700	-	-
Nat'l Highway Traffic Safety Admin	23,743	1,097	-	-	-	2,764	16,555	3,327	-
Office of the Secretary	837	-	-	300	-	-	437	100	-
Research & Special Programs Admin	3,044	-	-	-	-	-	2,844	-	200
Department of the Treasury, total	18,406	250	255	3,656	-	8,897	300	5,048	-
Bureau of Engraving and Printing	3,306	-	-	3,006	-	-	300	-	-
Internal Revenue Service	13,945	-	-	-	-	8,897	-	5,048	-
Office of Protective Research	505	250	255	-	-	-	-	-	-
United States Customs Service	650	-	-	650	-	-	-	-	-
Department of Veterans Affairs	182,700	162,550	15,150	-	-	-	5,000	-	-
Other agencies									
Advisory Comm on Intergov't Relations	1,416	-	-	-	-	-	-	1,416	-
Agency for Internat'l Development	288,860	202,345	-	-	610	2,356	2,924	43,087	37,538
Consumer Product Safety Commission	1,035	-	-	115	-	-	920	-	-
Environmental Protection Agency	280,942	119,657	1,002	48,142	54,760	5,157	47,213	7	5,004
Federal Communications Commission	1,414	-	-	-	-	78	1,100	236	-
Federal Trade Commission	519	-	-	-	-	-	-	519	-
International Trade Commission	11,790	-	-	-	-	-	-	11,790	-
Library of Congress	1,314	-	-	-	-	-	-	-	1,314
National Aeronautics & Space Admin	2,231,487	173,660	12,492	105,139	302,982	53,765	1,559,024	-	24,425
National Archives & Records Admin	310	-	-	310	-	-	-	-	-
National Science Foundation	136,324	12,504	94	18,357	6,360	19,295	51,171	12,754	15,787
Nuclear Regulatory Commission	250,938	-	-	-	-	-	250,938	-	-
Office of Thrift Supervision 4/	3,494	-	-	-	-	-	-	3,494	-
Tennessee Valley Authority	22,052	5,762	-	7,416	818	-	-	158	7,898
US Arms Control & Disarmament Agency	2,000	-	-	950	-	100	100	850	-
United States Information Agency	650	-	-	-	-	-	650	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-60. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	233,544	65,778	118,050	49,716	3,660,276	1,402,478	174,019	390,861	1,532,723	160,195
Departments										
Department of Agriculture, total	177	-	177	-	395,176	49,793	97,103	237,548	10,732	-
Agricultural Marketing Service 1/	-	-	-	-	1,700	-	-	1,700	-	-
Agricultural Research Service	-	-	-	-	192,012	5,536	22,871	160,284	3,321	-
Animal & Plant Health Inspection Svc	-	-	-	-	7,970	-	-	7,970	-	-
Cooperative State Research Service	-	-	-	-	123,990	20,396	37,804	57,479	7,411	-
Federal Grain Inspection Service	-	-	-	-	222	-	-	222	-	-
Forest Service	177	-	177	-	60,289	23,861	36,428	-	-	-
Human Nutrition Information Service	-	-	-	-	9,031	-	-	9,031	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	862	-	-	862	-	-
Department of Commerce, total	342	163	179	-	14,303	-	5,975	6,942	1,386	-
Bureau of the Census	179	-	179	-	-	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	163	163	-	-	14,303	-	5,975	6,942	1,386	-
Department of Defense, total	70,069	2,759	67,250	-	185,383	26,529	5,838	-	110,214	42,803
Department of the Army	34,187	760	33,427	-	103,677	5,581	423	-	97,673	-
Department of the Navy	13,055	1,999	11,056	-	12,967	2,615	1,506	-	8,846	-
Department of the Air Force	22,767	-	22,767	-	45,535	-	1,821	-	911	42,803
Defense agencies	-	-	-	-	23,204	18,332	2,088	-	2,784	-
Department of Education	5,786	203	3,101	2,482	17,289	3,314	-	-	9,836	4,139
Department of Energy	-	-	-	-	44,288	4,731	425	325	36,890	1,917
Dept of Hlth & Human Services, total	133,983	47,829	39,286	46,868	2,313,336	1,147,451	334	62	1,112,380	53,109
Alcohol, Drug Abuse & Mental Hlth Admin	97,684	47,356	37,741	12,587	253,014	136,867	249	62	106,317	9,519
Centers for Disease Control	-	-	-	-	95,600	-	-	-	95,600	-
Food & Drug Administration	-	-	-	-	99,000	48,510	-	-	50,490	-
Health Resources and Services Administration	-	-	-	-	10,706	-	-	-	10,706	-
National Institutes of Health	36,299	473	1,545	34,281	1,849,172	962,074	85	-	843,423	43,590
Office of Asst Secy for Health	-	-	-	-	5,844	-	-	-	5,844	-
Department of the Interior, total	-	-	-	-	77,260	48,289	26,886	2,005	-	80
Bureau of Land Management	-	-	-	-	2,000	-	100	1,900	-	-
Bureau of Reclamation	-	-	-	-	1,168	-	1,168	-	-	-
Geological Survey	-	-	-	-	1,283	589	589	105	-	-
National Park Service	-	-	-	-	15,980	800	15,100	-	-	80
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	429	-	429	-	-	-
US Fish & Wildlife Service	-	-	-	-	56,400	46,900	9,500	-	-	-
Department of Justice, total	678	-	678	-	374	-	195	179	-	-
Drug Enforcement Administration	-	-	-	-	179	-	-	179	-	-
Federal Prison System	400	-	400	-	-	-	-	-	-	-
Office of Justice Programs	278	-	278	-	195	-	195	-	-	-
Department of Transportation, total	-	-	-	-	2,000	2,000	-	-	-	-
Nat'l Highway Traffic Safety Admin	-	-	-	-	2,000	2,000	-	-	-	-
Department of the Treasury, total	236	-	-	236	242	-	-	-	242	-
Office of Protective Research	236	-	-	236	242	-	-	-	242	-
Department of Veterans Affairs	13,949	13,614	335	-	180,383	29,521	-	-	159,862	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	205,053	6,735	5,650	131,089	30,964	30,615
Environmental Protection Agency	1,176	1,176	-	-	107,070	61,779	22,450	8,829	14,012	-
National Aeronautics & Space Admin	7,135	-	7,005	130	104,337	25,167	5,449	-	46,205	27,516
National Science Foundation	73	34	39	-	9,900	6,170	3,714	-	-	16
Tennessee Valley Authority	-	-	-	-	3,882	-	-	3,882	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-61. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	250,379	74,934	121,055	54,390	4,060,557	1,517,113	216,999	406,887	1,753,938	165,620
Departments										
Department of Agriculture, total	188	-	188	-	444,711	58,421	112,970	261,689	11,631	-
Agricultural Marketing Service 1/	-	-	-	-	1,972	-	-	1,972	-	-
Agricultural Research Service	-	-	-	-	206,406	6,098	30,044	167,437	2,827	-
Animal & Plant Health Inspection Svc	-	-	-	-	8,713	-	-	8,713	-	-
Cooperative State Research Service	-	-	-	-	152,856	27,058	44,356	72,638	8,804	-
Federal Grain Inspection Service	-	-	-	-	334	-	-	334	-	-
Forest Service	188	-	188	-	63,835	25,265	38,570	-	-	-
Human Nutrition Information Service	-	-	-	-	9,998	-	-	9,998	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	597	-	-	597	-	-
Department of Commerce, total	359	-	359	-	14,624	-	5,994	7,157	1,473	-
Bureau of the Census	211	-	211	-	-	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	148	-	148	-	14,624	-	5,994	7,157	1,473	-
Department of Defense, total	65,705	2,960	62,745	-	191,390	26,538	6,084	-	120,400	38,368
Department of the Army	30,922	785	30,137	-	104,691	4,709	500	-	99,482	-
Department of the Navy	14,209	2,175	12,034	-	14,112	3,455	1,638	-	9,019	-
Department of the Air Force	20,574	-	20,574	-	41,147	-	1,853	-	926	38,368
Defense agencies	-	-	-	-	31,440	18,374	2,093	-	10,973	-
Department of Education	5,027	201	2,715	2,111	17,792	3,519	-	-	9,917	4,356
Department of Energy	-	-	-	-	125,304	5,943	425	325	114,896	3,715
Dept of Hlth & Human Services, total	152,415	55,574	44,952	51,889	2,534,682	1,253,704	347	65	1,222,309	58,257
Alcohol, Drug Abuse & Mental Hlth Admin	113,095	55,057	43,288	14,750	291,890	156,778	257	65	123,698	11,092
Centers for Disease Control	-	-	-	-	109,600	-	-	-	109,600	-
Food & Drug Administration	-	-	-	-	110,000	53,920	-	-	56,080	-
Health Resources and Services Administration	-	-	-	-	9,223	-	-	-	9,223	-
National Institutes of Health	39,320	517	1,664	37,139	2,004,338	1,043,006	90	-	914,077	47,165
Office of Asst Secy for Health	-	-	-	-	9,631	-	-	-	9,631	-
Department of the Interior, total	-	-	-	-	90,373	42,319	46,130	1,824	-	100
Bureau of Land Management	-	-	-	-	2,719	400	600	1,719	-	-
Bureau of Reclamation	-	-	-	-	1,845	-	1,845	-	-	-
Geological Survey	-	-	-	-	1,809	719	985	105	-	-
National Park Service	-	-	-	-	19,600	800	18,700	-	-	100
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	300	-	300	-	-	-
US Fish & Wildlife Service	-	-	-	-	64,100	40,400	23,700	-	-	-
Department of Justice, total	700	300	400	-	-	-	-	-	-	-
Federal Prison System	400	-	400	-	-	-	-	-	-	-
Office of Justice Programs	300	300	-	-	-	-	-	-	-	-
Department of Transportation, total	527	-	527	-	924	924	-	-	-	-
Coast Guard	527	-	527	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	-	-	-	-	924	924	-	-	-	-
Department of the Treasury, total	243	-	-	243	250	-	-	-	250	-
Office of Protective Research	243	-	-	243	250	-	-	-	250	-
Department of Veterans Affairs	15,158	14,908	250	-	184,877	19,818	-	-	165,059	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	194,400	4,589	7,506	114,892	31,079	36,334
Environmental Protection Agency	952	952	-	-	110,065	60,980	22,758	12,203	14,124	-
National Aeronautics & Space Admin	9,029	-	8,882	147	131,558	33,445	10,841	-	62,800	24,472
National Science Foundation	76	39	37	-	10,875	6,913	3,944	-	-	18
Tennessee Valley Authority	-	-	-	-	8,732	-	-	8,732	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-62. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	269,831	79,003	132,169	58,659	4,173,583	1,621,814	207,266	431,058	1,775,940	137,505
Departments										
Department of Agriculture, total	183	-	183	-	444,774	60,088	106,179	272,354	6,153	-
Agricultural Marketing Service 1/	-	-	-	-	2,115	-	-	2,115	-	-
Agricultural Research Service	-	-	-	-	218,446	6,453	31,796	177,205	2,992	-
Animal & Plant Health Inspection Svc	-	-	-	-	9,184	-	-	9,184	-	-
Cooperative State Research Service	-	-	-	-	139,530	29,034	36,826	70,509	3,161	-
Federal Grain Inspection Service	-	-	-	-	334	-	-	334	-	-
Forest Service	183	-	183	-	62,158	24,601	37,557	-	-	-
Human Nutrition Information Service	-	-	-	-	12,654	-	-	12,654	-	-
Off of Internat'l Cooperation & Development	-	-	-	-	353	-	-	353	-	-
Department of Commerce, total	349	-	349	-	10,527	-	2,416	7,146	965	-
Bureau of the Census	211	-	211	-	-	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	138	-	138	-	10,527	-	2,416	7,146	965	-
Department of Defense, total	69,699	3,147	66,552	-	196,923	26,382	11,755	1,028	157,758	-
Department of the Army	28,808	822	27,986	-	91,424	4,754	666	-	86,004	-
Department of the Navy	15,187	2,325	12,862	-	15,084	3,882	1,751	-	9,451	-
Department of the Air Force	25,704	-	25,704	-	51,409	-	2,056	1,028	48,325	-
Defense agencies	-	-	-	-	39,006	17,746	7,282	-	13,978	-
Department of Education	5,357	214	2,893	2,250	18,355	3,643	-	-	10,265	4,447
Department of Energy	-	-	-	-	43,079	3,741	475	375	33,943	4,545
Dept of Hlth & Human Services, total	162,923	59,679	47,655	55,589	2,689,961	1,336,018	346	63	1,291,745	61,789
Alcohol, Drug Abuse & Mental Hlth Admin	121,218	59,131	45,890	16,197	313,813	168,332	251	63	133,405	11,762
Centers for Disease Control	-	-	-	-	113,300	-	-	-	113,300	-
Food & Drug Administration	-	-	-	-	125,300	61,397	-	-	63,903	-
Health Resources and Services Administration	-	-	-	-	9,299	-	-	-	9,299	-
National Institutes of Health	41,705	548	1,765	39,392	2,125,949	1,106,289	95	-	969,538	50,027
Office of Asst Secy for Health	-	-	-	-	2,300	-	-	-	2,300	-
Department of the Interior, total	-	-	-	-	92,139	53,151	35,456	3,432	-	100
Bureau of Land Management	-	-	-	-	4,739	500	1,000	3,239	-	-
Bureau of Reclamation	-	-	-	-	1,405	-	1,405	-	-	-
Geological Survey	-	-	-	-	1,995	751	1,051	193	-	-
National Park Service	-	-	-	-	22,500	1,000	21,400	-	-	100
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	900	-	900	-	-	-
US Fish & Wildlife Service	-	-	-	-	60,600	50,900	9,700	-	-	-
Department of Justice, total	1,625	-	1,225	400	-	-	-	-	-	-
Drug Enforcement Administration	325	-	325	-	-	-	-	-	-	-
Federal Prison System	400	-	400	-	-	-	-	-	-	-
Office of Justice Programs	900	-	500	400	-	-	-	-	-	-
Department of Transportation, total	702	-	702	-	1,097	1,097	-	-	-	-
Coast Guard	702	-	702	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	-	-	-	-	1,097	1,097	-	-	-	-
Department of the Treasury, total	255	-	-	255	250	-	-	-	250	-
Office of Protective Research	255	-	-	255	250	-	-	-	250	-
Department of Veterans Affairs	15,150	14,900	250	-	162,550	19,100	-	-	143,450	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	202,345	1,874	7,080	126,440	32,916	34,035
Environmental Protection Agency	1,002	1,002	-	-	119,657	64,034	26,245	14,458	14,920	-
National Aeronautics & Space Admin	12,492	-	12,327	165	173,660	44,570	12,946	-	83,575	32,569
National Science Foundation	94	61	33	-	12,504	8,116	4,368	-	-	20
Tennessee Valley Authority	-	-	-	-	5,762	-	-	5,762	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-63. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	1,147,215	17,214	259,595	780,593	89,813	899,274	329,675	221,389	220,393	127,817
Departments										
Department of Agriculture, total	34,627	-	32,395	2,232	-	7,677	2,396	5,281	-	-
Agricultural Research Service	19,715	-	18,764	951	-	854	707	147	-	-
Cooperative State Research Service	8,143	-	8,143	-	-	530	530	-	-	-
Forest Service	6,769	-	5,488	1,281	-	6,293	1,159	5,134	-	-
Department of Commerce, total	42,246	145	15,556	26,545	-	217,305	56,694	4,991	152,814	2,806
Nat'l Institute of Standards & Tech	28,534	145	8,900	19,489	-	157	-	157	-	-
Nat'l Oceanic & Atmospheric Admin	13,712	-	6,656	7,056	-	217,148	56,694	4,834	152,814	2,806
Department of Defense, total	328,144	1,367	55,444	222,917	48,416	139,705	67,722	54,993	12,329	4,661
Department of the Army	63,903	-	36,455	5,664	21,784	12,111	6,524	567	359	4,661
Department of the Navy	48,822	1,367	800	42,261	4,394	15,356	2,304	1,082	11,970	-
Department of the Air Force	63,554	-	18,189	41,690	3,675	45,555	39,635	5,920	-	-
Defense agencies	151,865	-	-	133,302	18,563	66,683	19,259	47,424	-	-
Department of Energy	548,123	-	60,450	476,712	10,961	162,816	8,851	46,262	-	107,703
Dept of Hlth & Human Services, total	29,294	-	25,091	4,203	-	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	5,424	-	5,424	-	-	-	-	-	-	-
National Institutes of Health	23,870	-	19,667	4,203	-	-	-	-	-	-
Dept of Housing & Urban Development	172	-	172	-	-	-	-	-	-	-
Department of the Interior, total	18,483	-	14,783	2,358	1,342	109,346	210	92,861	10,580	5,695
Bureau of Land Management	-	-	-	-	-	100	100	-	-	-
Bureau of Mines	-	-	-	-	-	7,655	-	3,127	-	4,528
Bureau of Reclamation	1,203	-	46	-	1,157	267	110	144	-	13
Geological Survey	17,095	-	14,737	2,358	-	99,470	-	88,890	10,580	-
National Park Service	-	-	-	-	-	1,854	-	700	-	1,154
Off of Surface Mining Reclamation & Enforcement	185	-	-	-	185	-	-	-	-	-
Department of Transportation, total	9,143	-	7,797	746	600	4,820	-	4,750	70	-
Coast Guard	170	-	170	-	-	-	-	-	-	-
Federal Highway Administration	8,373	-	7,627	746	-	4,750	-	4,750	-	-
Maritime Administration	-	-	-	-	-	70	-	-	70	-
Office of the Secretary	600	-	-	-	600	-	-	-	-	-
Department of the Treasury, total	1,764	-	736	418	610	-	-	-	-	-
Bureau of Engraving and Printing	1,364	-	736	18	610	-	-	-	-	-
United States Customs Service	400	-	-	400	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	-	419	-	-	-	419
Consumer Product Safety Commission	279	-	279	-	-	-	-	-	-	-
Environmental Protection Agency	29,818	-	27,437	2,381	-	49,846	43,632	4,080	2,134	-
National Aeronautics & Space Admin	84,084	15,312	8,244	35,468	25,060	201,779	148,614	7,336	40,200	5,629
National Archives & Records Admin	75	-	55	20	-	-	-	-	-	-
National Science Foundation	15,109	390	5,302	6,593	2,824	4,824	819	835	2,266	904
Tennessee Valley Authority	5,854	-	5,854	-	-	737	737	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-64. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	1,161,080	20,331	283,849	763,352	93,548	1,037,055	389,598	251,722	254,285	141,450
Departments										
Department of Agriculture, total	39,002	-	36,502	2,500	-	8,794	3,163	5,631	-	-
Agricultural Research Service	22,099	-	20,955	1,144	-	1,549	1,353	196	-	-
Cooperative State Research Service	9,736	-	9,736	-	-	582	582	-	-	-
Forest Service	7,167	-	5,811	1,356	-	6,663	1,228	5,435	-	-
Department of Commerce, total	47,933	85	17,059	30,789	-	255,353	66,558	5,876	180,051	2,868
Nat'l Institute of Standards & Tech	32,021	85	9,303	22,633	-	246	-	246	-	-
Nat'l Oceanic & Atmospheric Admin	15,912	-	7,756	8,156	-	255,107	66,558	5,630	180,051	2,868
Department of Defense, total	302,660	1,488	46,243	208,711	46,218	122,317	63,096	41,306	12,385	5,530
Department of the Army	54,282	-	29,458	5,177	19,647	12,186	5,506	835	315	5,530
Department of the Navy	53,126	1,488	900	45,957	4,781	16,713	3,159	1,484	12,070	-
Department of the Air Force	55,932	-	15,885	36,863	3,184	41,147	35,127	6,020	-	-
Defense agencies	139,320	-	-	120,714	18,606	52,271	19,304	32,967	-	-
Department of Energy	552,496	-	73,709	461,144	17,643	182,878	8,462	58,008	-	116,408
Dept of Hlth & Human Services, total	32,349	-	27,740	4,564	45	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	6,361	-	6,361	-	-	-	-	-	-	-
National Institutes of Health	25,988	-	21,379	4,564	45	-	-	-	-	-
Dept of Housing & Urban Development	-	-	-	-	-	202	-	-	-	202
Department of the Interior, total	22,547	-	18,103	2 877	1,567	125,675	495	107,402	10,921	6,857
Bureau of Mines	-	-	-	-	-	9,928	-	3,771	-	6,157
Bureau of Reclamation	1,687	-	120	-	1,567	290	195	95	-	-
Geological Survey	20,860	-	17,983	2,877	-	112,587	300	101,366	10,921	-
National Park Service	-	-	-	-	-	2,200	-	1,500	-	700
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	-	670	-	670	-	-
Department of Transportation, total	8,832	-	6,759	1,873	200	4,451	263	3,320	801	67
Coast Guard	-	-	-	-	-	801	-	-	801	-
Federal Highway Administration	7,474	-	6,759	715	-	3,650	263	3,320	-	67
Federal Railroad Administration	1,158	-	-	1,158	-	-	-	-	-	-
Office of the Secretary	200	-	-	-	200	-	-	-	-	-
Department of the Treasury, total	3,155	-	1,394	660	1,101	-	-	-	-	-
Bureau of Engraving and Printing	2,645	-	1,394	150	1,101	-	-	-	-	-
United States Customs Service	510	-	-	510	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	-	663	-	-	-	663
Consumer Product Safety Commission	178	-	178	-	-	-	-	-	-	-
Environmental Protection Agency	32,974	-	30,113	2,861	-	49,791	42,723	4,946	2,122	-
National Aeronautics & Space Admin	91,053	18,321	8,950	40,044	23,738	280,570	203,108	23,993	45,570	7,899
National Archives & Records Admin	185	-	60	125	-	-	-	-	-	-
National Science Foundation	16,331	437	5,654	7,204	3,036	5,611	980	1,240	2,435	956
Tennessee Valley Authority	11,240	-	11,240	-	-	750	750	-	-	-
US Arms Control & Disarmament Agency	145	-	145	-	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-65. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	1,378,987	24,617	284,400	917,635	152,335	1,118,056	428,916	232,925	257,342	198,873
Departments										
Department of Agriculture, total	39,544	-	37,013	2,531	-	8,726	3,225	5,501	-	-
Agricultural Research Service	23,388	-	22,177	1,211	-	1,640	1,432	208	-	-
Cooperative State Research Service	9,177	-	9,177	-	-	598	598	-	-	-
Forest Service	6,979	-	5,659	1,320	-	6,488	1,195	5,293	-	-
Department of Commerce, total	48,432	90	16,276	32,064	2	260,763	83,473	2,380	171,968	2,942
Nat'l Institute of Standards & Tech	35,120	90	10,320	24,708	2	358	-	250	-	108
Nat'l Oceanic & Atmospheric Admin	13,312	-	5,956	7,356	-	260,405	83,473	2,130	171,968	2,834
Department of Defense, total	455,754	1,590	58,692	301,471	94,001	144,568	74,790	40,475	13,238	16,065
Department of the Army	93,356	-	37,243	6,401	49,712	23,008	5,721	886	336	16,065
Department of the Navy	56,782	1,590	950	49,132	5,110	17,864	3,376	1,586	12,902	-
Department of the Air Force	70,687	-	20,499	46,654	3,534	51,409	44,726	6,683	-	-
Defense agencies	234,929	-	-	199,284	35,645	52,287	20,967	31,320	-	-
Department of Energy	582,034	-	48,140	513,886	20,008	213,088	8,681	36,393	-	168,014
Dept of Hlth & Human Services, total	34,583	-	29,695	4,841	47	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	7,018	-	7,018	-	-	-	-	-	-	-
National Institutes of Health	27,565	-	22,677	4,841	47	-	-	-	-	-
Dept of Housing & Urban Development	-	-	-	-	-	151	-	-	-	151
Department of the Interior, total	26,730	-	18,928	3,002	4,800	121,030	655	104,372	11,419	4,584
Bureau of Mines	-	-	-	-	-	6,473	-	2,589	-	3,884
Bureau of Reclamation	4,965	-	165	-	4,800	380	255	125	-	-
Geological Survey	21,765	-	18,763	3,002	-	109,877	400	98,058	11,419	-
National Park Service	-	-	-	-	-	2,700	-	2,000	-	700
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	-	1,600	-	1,600	-	-
Department of Justice, total	-	-	-	-	-	125	-	-	-	125
Drug Enforcement Administration	-	-	-	-	-	125	-	-	-	125
Department of Transportation, total	7,825	-	5,254	2,271	300	4,075	203	2,580	940	352
Coast Guard	-	-	-	-	-	940	-	-	940	-
Federal Highway Administration	5,811	-	5,254	557	-	2,835	203	2,580	-	52
Federal Railroad Administration	1,714	-	-	1,714	-	-	-	-	-	-
Maritime Administration	-	-	-	-	-	300	-	-	-	300
Office of the Secretary	300	-	-	-	300	-	-	-	-	-
Department of the Treasury, total	3,656	-	928	950	1,778	-	-	-	-	-
Bureau of Engraving and Printing	3,006	-	928	300	1,778	-	-	-	-	-
United States Customs Service	650	-	-	650	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	-	-	-	-	610	-	-	-	610
Consumer Product Safety Commission	115	-	115	-	-	-	-	-	-	-
Environmental Protection Agency	48,142	-	45,044	3,098	-	54,760	45,346	5,928	3,486	-
National Aeronautics & Space Admin	105,139	22,465	9,520	45,078	28,076	302,982	210,700	33,881	53,520	4,881
National Archives & Records Admin	310	-	60	250	-	-	-	-	-	-
National Science Foundation	18,357	472	6,419	8,143	3,323	6,360	1,025	1,415	2,771	1,149
Tennessee Valley Authority	7,416	-	7,416	-	-	818	818	-	-	-
US Arms Control & Disarmament Agency	950	-	900	50	-	-	-	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-66. Federal obligations for applied research in engineering, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	3,233,643	657,452	518,490	166,004	270,201	493,105	176,907	294,343	657,141
Departments									
Department of Agriculture, total	25,428	-	-	4,863	3,699	234	2,791	-	13,841
Agricultural Research Service	4,742	-	-	2,881	1,062	196	603	-	-
Cooperative State Research Service	11,401	-	-	-	-	-	-	-	11,401
Forest Service	9,285	-	-	1,982	2,637	38	2,188	-	2,440
Department of Commerce, total	51,565	-	-	2,828	5,860	11,320	1,496	10,924	19,137
Nat'l Institute of Standards & Tech	44,739	-	-	2,828	4,870	6,891	1,496	10,924	17,730
Nat'l Oceanic & Atmospheric Admin	3,856	-	-	-	990	1,459	-	-	1,407
Nat'l Telecomm & Information Admin	2,970	-	-	-	-	2,970	-	-	-
Department of Defense, total	1,404,278	199,201	75,972	32,200	149,246	436,134	138,615	224,708	148,202
Department of the Army	319,020	35,149	2,612	21,334	34,725	91,506	74,235	16,388	43,071
Department of the Navy	301,504	40,703	15,076	9,045	12,061	114,571	48,240	24,120	37,688
Department of the Air Force	377,129	123,349	58,284	1,821	1,821	140,878	16,140	21,857	12,979
Defense agencies	406,625	-	-	-	100,639	89,179	-	162,343	54,464
Department of Education	4,959	-	-	-	-	-	-	-	4,959
Department of Energy	295,486	-	-	77,775	26,570	20,718	2,091	17,009	151,323
Dept of Hlth & Human Services, total	19,670	-	-	-	-	-	-	-	19,670
National Institutes of Health	19,670	-	-	-	-	-	-	-	19,670
Dept of Housing & Urban Development	91	-	-	-	-	-	-	-	91
Department of the Interior, total	52,795	-	-	5,823	3,155	710	744	11,570	30,793
Bureau of Mines	41,610	-	-	-	-	-	-	11,522	30,088
Bureau of Reclamation	2,489	-	-	46	1,208	540	131	35	529
Geological Survey	6,841	-	-	4,716	1,600	170	355	-	-
Minerals Management Service	1,855	-	-	1,061	347	-	258	13	176
Department of Justice, total	575	-	-	-	-	200	200	-	175
Drug Enforcement Administration	175	-	-	-	-	-	-	-	175
Immigration & Naturalization Svc	400	-	-	-	-	200	200	-	-
Department of Transportation, total	91,885	4,180	1,676	6,976	57,276	5,258	11,938	169	4,412
Coast Guard	2,785	-	-	-	1,945	540	300	-	-
Federal Aviation Administration	26,125	4,180	1,306	-	17,243	3,396	-	-	-
Federal Highway Administration	40,455	-	-	6,553	32,951	475	-	-	476
Federal Railroad Administration	8,126	-	-	423	4,317	847	2,116	169	254
Maritime Administration	820	-	-	-	820	-	-	-	-
Nat'l Highway Traffic Safety Admin	10,273	-	-	-	-	-	9,522	-	751
Office of the Secretary	920	-	370	-	-	-	-	-	550
Research & Special Programs Admin	2,381	-	-	-	-	-	-	-	2,381
Department of Veterans Affairs	5,068	-	-	-	-	-	-	-	5,068
Other agencies									
Agency for Internat'l Development	4,324	-	-	-	1,874	2,204	-	-	246
Consumer Product Safety Commission	161	-	-	-	-	-	-	-	161
Environmental Protection Agency	45,308	-	-	20,822	17,815	450	3,734	585	1,902
Federal Communications Commission	851	-	-	-	-	851	-	-	-
General Services Administration	665	-	-	-	665	-	-	-	-
National Aeronautics & Space Admin	974,627	453,964	440,842	5,749	-	5,147	8,559	26,794	33,572
National Science Foundation	37,933	107	-	8,968	4,041	9,429	6,739	2,584	6,065
Nuclear Regulatory Commission	217,524	-	-	-	-	-	-	-	217,524
United States Information Agency	450	-	-	-	-	450	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-67. Federal obligations for applied research in engineering, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	3,644,363	781,218	557,537	187,947	288,967	513,459	194,784	381,018	739,433
Departments									
Department of Agriculture, total	27,358	-	-	5,081	3,877	246	2,653	-	15,501
Agricultural Research Service	4,610	-	-	2,983	1,085	206	336	-	-
Cooperative State Research Service	12,917	-	-	-	-	-	-	-	12,917
Forest Service	9,831	-	-	2,098	2,792	40	2,317	-	2,584
Department of Commerce, total	65,133	-	-	3,330	4,760	25,720	1,892	12,246	17,185
Nat'l Institute of Standards & Tech	57,890	-	-	3,330	4,185	20,476	1,892	12,246	15,761
Nat'l Oceanic & Atmospheric Admin	3,458	-	-	-	575	1,459	-	-	1,424
Nat'l Telecomm & Information Admin	3,785	-	-	-	-	3,785	-	-	-
Department of Defense, total	1,502,093	194,218	72,760	29,207	152,701	432,282	140,539	307,865	172,521
Department of the Army	329,605	32,821	2,238	16,028	35,739	117,324	75,797	17,208	32,450
Department of the Navy	328,152	44,300	16,408	9,845	13,126	124,697	52,504	26,252	41,020
Department of the Air Force	342,087	117,097	54,114	3,334	2,964	127,876	12,238	17,054	7,410
Defense agencies	502,249	-	-	-	100,872	62,385	-	247,351	91,641
Department of Education	5,484	-	-	-	-	-	-	-	5,484
Department of Energy	359,293	-	-	102,069	31,656	24,112	2,619	16,780	182,057
Dept of Hlth & Human Services, total	21,334	-	-	-	-	-	-	-	21,334
National Institutes of Health	21,334	-	-	-	-	-	-	-	21,334
Dept of Housing & Urban Development	349	-	-	-	-	-	-	-	349
Department of the Interior, total	63,627	-	-	6,949	4,068	740	1,215	13,191	37,464
Bureau of Mines	49,182	-	-	-	-	-	-	13,129	36,053
Bureau of Reclamation	3,878	-	-	-	1,823	560	250	50	1,195
Geological Survey	7,985	-	-	5,755	1,700	180	350	-	-
Minerals Management Service	2,582	-	-	1,194	545	-	615	12	216
Department of Justice, total	745	-	-	-	-	200	200	-	345
Drug Enforcement Administration	345	-	-	-	-	-	-	-	345
Immigration & Naturalization Svc	400	-	-	-	-	200	200	-	-
Department of Transportation, total	117,815	4,342	2,021	6,755	69,758	8,154	21,961	888	3,936
Coast Guard	3,215	-	-	-	560	1,400	500	-	755
Federal Aviation Administration	28,013	4,342	1,821	-	18,068	3,782	-	-	-
Federal Highway Administration	51,710	-	-	6,177	44,731	80	220	502	-
Federal Railroad Administration	16,197	-	-	578	5,399	2,892	6,171	386	771
Maritime Administration	1,000	-	-	-	1,000	-	-	-	-
Nat'l Highway Traffic Safety Admin	15,070	-	-	-	-	-	15,070	-	-
Office of the Secretary	350	-	200	-	-	-	-	-	150
Research & Special Programs Admin	2,260	-	-	-	-	-	-	-	2,260
Department of the Treasury, total	450	-	-	-	-	150	300	-	-
Bureau of Engraving and Printing	450	-	-	-	-	150	300	-	-
Department of Veterans Affairs	5,065	-	-	-	-	-	-	-	5,065
Other agencies									
Agency for Internat'l Development	2,551	-	-	-	2,338	-	-	-	213
Consumer Product Safety Commission	924	-	-	-	-	-	-	-	924
Environmental Protection Agency	43,525	-	-	20,450	15,491	438	4,439	318	2,389
Federal Communications Commission	1,062	-	-	-	-	1,062	-	-	-
National Aeronautics & Space Admin	1,155,285	582,545	482,756	4,524	-	8,131	11,750	26,981	38,598
National Science Foundation	42,292	113	-	9,582	4,318	11,824	7,216	2,749	6,490
Nuclear Regulatory Commission	229,578	-	-	-	-	-	-	-	229,578
United States Information Agency	400	-	-	-	-	400	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-68. Federal obligations for applied research in engineering, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	4,146,766	891,787	874,000	146,997	297,985	525,245	220,121	305,368	885,263
Departments									
Department of Agriculture, total	24,315	-	-	5,201	3,866	257	2,612	-	12,379
Agricultural Research Service	4,879	-	-	3,157	1,148	218	356	-	-
Cooperative State Research Service	9,863	-	-	-	-	-	-	-	9,863
Forest Service	9,573	-	-	2,044	2,718	39	2,256	-	2,516
Department of Commerce, total	69,205	-	-	3,535	4,899	28,078	3,162	12,248	17,283
Nat'l Institute of Standards & Tech	62,044	-	-	3,535	3,887	22,834	3,162	12,248	16,378
Nat'l Oceanic & Atmospheric Admin	3,376	-	-	-	1,012	1,459	-	-	905
Nat'l Telecomm & Information Admin	3,785	-	-	-	-	3,785	-	-	-
Department of Defense, total	1,581,051	223,720	85,306	27,663	162,599	429,215	160,799	227,852	263,897
Department of the Army	358,919	40,651	1,966	13,439	43,591	128,618	88,230	16,837	25,587
Department of the Navy	350,739	47,350	17,537	10,522	14,030	133,280	56,118	28,059	43,843
Department of the Air Force	407,671	135,719	65,803	3,702	3,290	152,684	16,451	21,797	8,225
Defense agencies	463,722	-	-	-	101,688	14,633	-	161,159	186,242
Department of Education	5,844	-	-	-	-	-	-	-	5,844
Department of Energy	360,252	-	-	55,924	40,529	30,336	1,796	17,132	214,535
Dept of Hlth & Human Services, total	22,629	-	-	-	-	-	-	-	22,629
National Institutes of Health	22,629	-	-	-	-	-	-	-	22,629
Dept of Housing & Urban Development	320	-	-	-	-	-	-	-	320
Department of the Interior, total	54,743	-	-	9,726	4,061	1,145	1,685	12,150	25,976
Bureau of Mines	36,553	-	-	-	-	-	-	12,089	24,464
Bureau of Reclamation	3,850	-	-	150	1,117	945	318	50	1,270
Geological Survey	8,204	-	-	6,004	1,700	200	300	-	-
Minerals Management Service	5,714	-	-	3,361	1,033	-	1,067	11	242
Off of Surface Mining Reclamation & Enforcement	422	-	-	211	211	-	-	-	-
Department of Justice, total	745	-	-	-	-	200	200	-	345
Drug Enforcement Administration	345	-	-	-	-	-	-	-	345
Immigration & Naturalization Svc	400	-	-	-	-	200	200	-	-
Department of Transportation, total	108,322	3,869	1,748	6,218	57,824	8,108	24,241	1,033	5,281
Coast Guard	3,658	-	-	-	650	1,650	658	-	700
Federal Aviation Administration	25,793	3,869	1,548	-	16,765	3,611	-	-	-
Federal Highway Administration	40,195	-	-	6,004	33,567	62	172	390	-
Federal Railroad Administration	17,140	-	-	214	5,142	2,785	6,856	643	1,500
Maritime Administration	1,700	-	-	-	1,700	-	-	-	-
Nat'l Highway Traffic Safety Admin	16,555	-	-	-	-	-	16,555	-	-
Office of the Secretary	437	-	200	-	-	-	-	-	237
Research & Special Programs Admin	2,844	-	-	-	-	-	-	-	2,844
Department of the Treasury, total	300	-	-	-	-	-	300	-	-
Bureau of Engraving and Printing	300	-	-	-	-	-	300	-	-
Department of Veterans Affairs	5,000	-	-	-	-	-	-	-	5,000
Other agencies									
Agency for Internat'l Development	2,924	-	-	-	1,930	690	-	-	304
Consumer Product Safety Commission	920	-	-	-	-	-	-	-	920
Environmental Protection Agency	47,213	-	-	22,147	17,306	436	4,863	351	2,110
Federal Communications Commission	1,100	-	-	-	-	1,100	-	-	-
National Aeronautics & Space Admin	1,559,024	664,068	786,946	5,555	-	8,932	12,150	31,448	49,925
National Science Foundation	51,171	130	-	11,028	4,971	16,098	8,313	3,154	7,477
Nuclear Regulatory Commission	250,938	-	-	-	-	-	-	-	250,938
US Arms Control & Disarmament Agency	100	-	-	-	-	-	-	-	100
United States Information Agency	650	-	-	-	-	650	-	-	-

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-69. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	433,854	64,998	336,919	31,937	483,992	1,851	160,051	6,792	91,989	223,309
Departments										
Department of Agriculture, total	7,445	6,642	803	-	79,536	-	72,350	354	6,029	803
Agricultural Cooperative Service	-	-	-	-	2,721	-	2,721	-	-	-
Agricultural Research Service	892	89	803	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	27,353	-	22,508	-	4,845	-
Economic Research Service	-	-	-	-	43,459	-	41,960	148	548	803
Forest Service	4,684	4,684	-	-	6,003	-	5,161	206	636	-
Nat'l Agricultural Statistics Svc	1,869	1,869	-	-	-	-	-	-	-	-
Department of Commerce, total	12,660	4,460	4,938	3,262	3,226	-	2,333	624	-	269
Bureau of the Census	1,294	1,123	171	-	529	-	288	241	-	-
Economic Development Administration	-	-	-	-	1,188	-	1,188	-	-	-
Nat'l Institute of Standards & Tech	9,525	2,678	3,585	3,262	230	-	230	-	-	-
Nat'l Oceanic & Atmospheric Admin	1,818	659	1,159	-	1,279	-	627	383	-	269
Nat'l Telecomm & Information Admin	23	-	23	-	-	-	-	-	-	-
Department of Defense, total	308,798	14,766	270,013	24,019	1,760	-	1,056	-	704	-
Department of the Army	42,578	2,820	34,074	5,684	1,760	-	1,056	-	704	-
Department of the Navy	47,052	6,587	29,643	10,822	-	-	-	-	-	-
Department of the Air Force	24,759	3,984	20,775	-	-	-	-	-	-	-
Defense agencies	194,409	1,375	185,521	7,513	-	-	-	-	-	-
Department of Education	805	-	-	805	96,491	-	-	-	1,253	95,238
Department of Energy	4,804	-	4,804	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	6,476	5,629	847	-	176,242	600	9,949	1,552	74,171	89,970
Administration for Children and Families 1/	-	-	-	-	7,728	-	-	-	-	7,728
Agency for Health Care Policy & Research 2/	-	-	-	-	44,200	-	4,862	-	39,338	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,102	652	450	-	48,699	600	2,287	1,319	33,200	11,293
Health Care Financing Admin	-	-	-	-	49,111	-	-	-	-	49,111
National Institutes of Health	5,074	4,977	97	-	10,048	-	-	-	-	10,048
Office of the Secretary	300	-	300	-	4,686	-	2,800	233	1,633	-
Social Security Administration	-	-	-	-	11,790	-	-	-	-	11,790
Dept of Housing & Urban Development	61	-	61	-	5,998	-	5,973	-	4	21
Department of the Interior, total	9,669	1,359	8,310	-	2,131	1,021	95	-	1,015	-
Geological Survey	9,475	1,359	8,116	-	-	-	-	-	-	-
National Park Service	122	-	122	-	2,131	1,021	95	-	1,015	-
Off of Surface Mining Reclamation & Enforcement	72	-	72	-	-	-	-	-	-	-
Department of Justice, total	90	75	15	-	9,352	150	400	400	4,000	4,402
Federal Prison System	-	-	-	-	1,400	50	50	-	1,000	300
Office of Justice Programs	90	75	15	-	7,952	100	350	400	3,000	4,102

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-69. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Department of Labor, total	-	-	-	-	21,333	-	21,333	-	-	-
Bureau of Labor Statistics	-	-	-	-	7,300	-	7,300	-	-	-
Employment Standards Administration	-	-	-	-	53	-	53	-	-	-
Employment and Training Admin	-	-	-	-	5,706	-	5,706	-	-	-
Occupational Safety & Health Admin	-	-	-	-	2,526	-	2,526	-	-	-
Office of the Secretary	-	-	-	-	3,338	-	3,338	-	-	-
Pension Benefit Guaranty Corporation	-	-	-	-	300	-	300	-	-	-
Pension & Welfare Benefits Admin	-	-	-	-	2,110	-	2,110	-	-	-
Department of State	-	-	-	-	1,165	58	291	233	117	466
Department of Transportation, total	7,262	472	3,217	3,573	3,835	-	965	-	2,870	-
Coast Guard	1,450	-	1,450	-	653	-	-	-	653	-
Federal Highway Administration	3,362	472	1,757	1,133	477	-	477	-	-	-
Federal Railroad Administration	-	-	-	-	338	-	338	-	-	-
Maritime Administration	10	-	10	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	2,440	-	-	2,440	2,217	-	-	-	2,217	-
Office of the Secretary	-	-	-	-	150	-	150	-	-	-
Department of the Treasury, total	8,360	7,106	1,254	-	4,744	-	3,084	-	-	1,660
Internal Revenue Service	8,360	7,106	1,254	-	4,744	-	3,084	-	-	1,660
Other agencies										
Advisory Comm on Intergov't Relations	-	-	-	-	1,513	-	756	757	-	-
Agency for Internat'l Development	2,840	-	2,820	20	52,319	-	24,063	1,872	635	25,749
Environmental Protection Agency	4,112	35	4,077	-	-	-	-	-	-	-
Federal Communications Commission	70	-	70	-	408	-	368	-	-	40
Federal Trade Commission	-	-	-	-	459	-	459	-	-	-
International Trade Commission	-	-	-	-	9,065	-	9,065	-	-	-
National Aeronautics & Space Admin	46,166	22,629	23,314	223	-	-	-	-	-	-
National Archives & Records Admin	25	25	-	-	-	-	-	-	-	-
National Science Foundation	14,143	1,800	12,343	-	9,986	22	3,232	850	1,191	4,691
Office of Thrift Supervision 3/	-	-	-	-	4,126	-	4,126	-	-	-
Tennessee Valley Authority	-	-	-	-	153	-	153	-	-	-
US Arms Control & Disarmament Agency	68	-	33	35	150	-	-	150	-	-

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-70. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	493,336	73,921	381,220	38,195	602,847	2,070	168,381	7,790	139,392	285,214
Departments										
Department of Agriculture, total	7,889	7,016	873	-	86,272	-	78,407	377	6,623	865
Agricultural Cooperative Service	-	-	-	-	2,870	-	2,870	-	-	-
Agricultural Research Service	970	97	873	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	30,316	-	24,954	-	5,362	-
Economic Research Service	-	-	-	-	46,730	-	45,118	159	588	865
Forest Service	4,960	4,960	-	-	6,356	-	5,465	218	673	-
Nat'l Agricultural Statistics Svc	1,959	1,959	-	-	-	-	-	-	-	-
Department of Commerce, total	23,266	4,865	14,697	3,704	3,227	-	2,348	634	-	245
Bureau of the Census	1,529	1,327	202	-	625	-	341	284	-	-
Economic Development Administration	-	-	-	-	1,190	-	1,190	-	-	-
Nat'l Institute of Standards & Tech	19,919	2,879	13,336	3,704	175	-	175	-	-	-
Nat'l Oceanic & Atmospheric Admin	1,818	659	1,159	-	1,237	-	642	350	-	245
Department of Defense, total	345,686	14,639	300,411	30,636	1,586	-	952	-	634	-
Department of the Army	49,782	2,916	38,331	8,535	1,586	-	952	-	634	-
Department of the Navy	51,201	7,168	32,257	11,776	-	-	-	-	-	-
Department of the Air Force	26,362	4,052	18,547	3,763	-	-	-	-	-	-
Defense agencies	218,341	503	211,276	6,562	-	-	-	-	-	-
Department of Education	914	-	-	914	119,459	-	-	-	1,315	118,144
Department of Energy	4,722	-	4,722	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	7,164	6,177	987	-	260,558	637	17,155	1,990	119,049	121,727
Administration for Children and Families 1/	-	-	-	-	8,944	-	-	-	-	8,944
Agency for Health Care Policy & Research 2/	-	-	-	-	87,200	-	9,592	-	77,608	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,256	781	475	-	56,119	637	2,446	1,564	38,456	13,016
Health Care Financing Admin	-	-	-	-	69,778	-	-	-	-	69,778
National Institutes of Health	5,508	5,396	112	-	10,881	-	-	-	-	10,881
Office of the Secretary	400	-	400	-	8,528	-	5,117	426	2,985	-
Social Security Administration	-	-	-	-	19,108	-	-	-	-	19,108
Dept of Housing & Urban Development	193	-	193	-	8,184	-	7,643	-	358	183
Department of the Interior, total	10,449	1,774	8,675	-	3,350	1,200	-	-	1,100	1,050
Geological Survey	10,249	1,774	8,475	-	150	-	-	-	-	150
National Park Service	200	-	200	-	3,200	1,200	-	-	1,100	900
Department of Justice, total	200	200	-	-	13,458	150	200	875	4,510	7,723
Federal Prison System	-	-	-	-	1,400	50	50	-	1,000	300
Office of Justice Programs	200	200	-	-	12,058	100	150	875	3,510	7,423

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-70. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Department of Labor, total	-	-	-	-	24,487	-	23,487	-	-	1,000
Bureau of Labor Statistics	-	-	-	-	7,400	-	7,400	-	-	-
Employment Standards Administration	-	-	-	-	181	-	181	-	-	-
Employment and Training Admin	-	-	-	-	6,364	-	6,364	-	-	-
Occupational Safety & Health Admin	-	-	-	-	3,265	-	3,265	-	-	-
Office of the Secretary	-	-	-	-	4,382	-	3,382	-	-	1,000
Pension Benefit Guaranty Corporation	-	-	-	-	355	-	355	-	-	-
Pension & Welfare Benefits Admin	-	-	-	-	2,540	-	2,540	-	-	-
Department of State	-	-	-	-	1,196	60	299	239	120	478
Department of Transportation, total	7,407	1,258	3,547	2,602	5,662	-	2,890	-	2,772	-
Coast Guard	1,607	-	1,607	-	-	-	-	-	-	-
Federal Highway Administration	3,198	1,258	1,940	-	890	-	890	-	-	-
Federal Railroad Administration	-	-	-	-	1,928	-	1,928	-	-	-
Nat'l Highway Traffic Safety Admin	2,602	-	-	2,602	2,772	-	-	-	2,772	-
Office of the Secretary	-	-	-	-	72	-	72	-	-	-
Department of the Treasury, total	8,897	7,562	1,335	-	5,048	-	3,281	-	-	1,767
Internal Revenue Service	8,897	7,562	1,335	-	5,048	-	3,281	-	-	1,767
Other agencies										
Advisory Comm on Intergov'tl Relations	-	-	-	-	1,528	-	764	764	-	-
Agency for Internat'l Development	3,578	-	3,552	26	42,653	-	12,233	1,876	1,641	26,903
Environmental Protection Agency	4,491	35	4,456	-	5	-	5	-	-	-
Federal Communications Commission	75	-	75	-	424	-	344	-	-	80
Federal Trade Commission	-	-	-	-	493	-	493	-	-	-
International Trade Commission	-	-	-	-	10,906	-	10,906	-	-	-
National Aeronautics & Space Admin	53,264	27,862	25,089	313	-	-	-	-	-	-
National Archives & Records Admin	70	70	-	-	-	-	-	-	-	-
National Science Foundation	15,046	2,463	12,583	-	10,797	23	3,525	930	1,270	5,049
Office of Thrift Supervision 3/	-	-	-	-	3,291	-	3,291	-	-	-
Tennessee Valley Authority	-	-	-	-	158	-	158	-	-	-
US Arms Control & Disarmament Agency	25	-	25	-	105	-	-	105	-	-

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-71. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	496,689	75,166	382,432	39,091	533,250	2,373	160,035	9,591	91,593	269,658
Departments										
Department of Agriculture, total	7,879	6,955	924	-	88,397	-	80,314	395	6,694	994
Agricultural Cooperative Service	-	-	-	-	3,018	-	3,018	-	-	-
Agricultural Research Service	1,027	103	924	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	25,458	-	20,097	-	5,361	-
Economic Research Service	-	-	-	-	53,732	-	51,879	183	677	994
Forest Service	4,830	4,830	-	-	6,189	-	5,321	212	656	-
Nat'l Agricultural Statistics Svc	2,022	2,022	-	-	-	-	-	-	-	-
Department of Commerce, total	23,294	4,958	14,518	3,818	2,045	-	1,166	634	-	245
Bureau of the Census	1,529	1,327	202	-	625	-	341	284	-	-
Nat'l Institute of Standards & Tech	19,947	2,972	13,157	3,818	183	-	183	-	-	-
Nat'l Oceanic & Atmospheric Admin	1,818	659	1,159	-	1,237	-	642	350	-	245
Department of Defense, total	342,953	16,417	295,393	31,143	1,472	-	883	-	589	-
Department of the Army	57,546	2,891	48,931	5,724	1,472	-	883	-	589	-
Department of the Navy	54,724	7,661	34,476	12,587	-	-	-	-	-	-
Department of the Air Force	32,130	4,498	23,455	4,177	-	-	-	-	-	-
Defense agencies	198,553	1,367	188,531	8,655	-	-	-	-	-	-
Department of Education	974	-	-	974	127,659	-	-	-	1,315	126,344
Department of Energy	4,806	-	4,806	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	7,469	6,565	904	-	176,168	636	8,729	1,914	70,797	94,095
Administration for Children and Families 1/	-	-	-	-	8,774	-	-	-	-	8,774
Agency for Health Care Policy & Research 2/	-	-	-	-	31,200	-	3,432	-	27,768	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,327	842	485	-	60,222	636	2,452	1,677	41,371	34,086
Health Care Financing Admin	-	-	-	-	36,000	-	-	-	-	36,000
National Institutes of Health	5,842	5,723	119	-	11,541	-	-	-	-	11,541
Office of the Secretary	300	-	300	-	4,737	-	2,842	237	1,658	-
Social Security Administration	-	-	-	-	23,694	-	-	-	-	23,694
Dept of Housing & Urban Development	660	-	660	-	7,378	-	6,978	-	176	224
Department of the Interior, total	11,455	2,001	9,454	-	3,762	1,502	-	-	1,210	1,050
Bureau of Land Management	-	-	-	-	112	102	-	-	10	-
Geological Survey	11,155	2,001	9,154	-	150	-	-	-	-	150
National Park Service	300	-	300	-	3,500	1,400	-	-	1,200	900
Department of Justice, total	500	200	300	-	9,292	150	350	400	4,100	4,292
Federal Prison System	-	-	-	-	1,300	50	50	-	1,000	200
Office of Justice Programs	500	200	300	-	7,992	100	300	400	3,100	4,092

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-71. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Department of Labor, total	-	-	-	-	29,823	-	23,023	-	-	6,800
Bureau of Labor Statistics	-	-	-	-	7,700	-	7,700	-	-	-
Employment Standards Administration	-	-	-	-	139	-	139	-	-	-
Employment and Training Admin	-	-	-	-	5,384	-	5,384	-	-	-
Occupational Safety & Health Admin	-	-	-	-	3,265	-	3,265	-	-	-
Office of the Secretary	-	-	-	-	10,285	-	3,485	-	-	6,800
Pension Benefit Guaranty Corporation	-	-	-	-	450	-	450	-	-	-
Pension & Welfare Benefits Admin	-	-	-	-	2,600	-	2,600	-	-	-
Department of State	-	-	-	-	1,203	60	301	241	120	481
Department of Transportation, total	7,051	978	3,309	2,764	6,690	-	3,363	-	3,327	-
Coast Guard	1,800	-	1,800	-	-	-	-	-	-	-
Federal Highway Administration	2,487	978	1,509	-	692	-	692	-	-	-
Federal Railroad Administration	-	-	-	-	2,571	-	2,571	-	-	-
Nat'l Highway Traffic Safety Admin	2,764	-	-	2,764	3,327	-	-	-	3,327	-
Office of the Secretary	-	-	-	-	100	-	100	-	-	-
Department of the Treasury, total	8,897	7,562	1,335	-	5,048	-	3,281	-	-	1,767
Internal Revenue Service	8,897	7,562	1,335	-	5,048	-	3,281	-	-	1,767
Other agencies										
Advisory Comm on Intergov'tl Relations	-	-	-	-	1,416	-	708	708	-	-
Agency for Internat'l Development	2,356	-	2,326	30	43,087	-	10,392	3,369	1,792	27,534
Environmental Protection Agency	5,157	35	5,122	-	7	-	7	-	-	-
Federal Communications Commission	78	-	78	-	236	-	236	-	-	-
Federal Trade Commission	-	-	-	-	519	-	519	-	-	-
International Trade Commission	-	-	-	-	11,790	-	11,790	-	-	-
National Aeronautics & Space Admin	53,765	25,583	25,820	362	-	-	-	-	-	-
National Science Foundation	19,295	2,912	16,383	-	12,756	25	4,346	1,080	1,473	5,832
Office of Thrift Supervision 3/	-	-	-	-	3,494	-	3,494	-	-	-
Tennessee Valley Authority	-	-	-	-	158	-	158	-	-	-
US Arms Control & Disarmament Agency	100	-	100	-	850	-	-	850	-	-

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

3/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-72. Federal obligations for development, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other non-profit institutions	FFRDCs admin by non-profit institutions	State and local govts	
Total, all agencies	41,928,448	10,049,222	26,178,380	1,694,883	1,000,626	1,658,296	587,438	484,015	87,451	188,137
Departments										
Department of Agriculture, total	39,124	36,579	-	-	2,101	-	211	-	6	227
Agricultural Marketing Service 2/	439	439	-	-	-	-	-	-	-	-
Agricultural Research Service	33,278	30,873	-	-	1,961	-	211	-	6	227
Federal Grain Inspection Service	425	285	-	-	140	-	-	-	-	-
Forest Service	4,800	4,800	-	-	-	-	-	-	-	-
Off of Internat'l Cooperation & Development	182	182	-	-	-	-	-	-	-	-
Department of Commerce, total	61,174	23,397	34,721	-	3,056	-	-	-	-	-
Bureau of the Census	1,986	1,986	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	10,523	10,193	50	-	280	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	47,737	10,290	34,671	-	2,776	-	-	-	-	-
Nat'l Telecomm & Information Admin	928	928	-	-	-	-	-	-	-	-
Department of Defense, total	33,738,919	8,429,903	23,148,790	387,838	418,325	581,529	203,432	398,759	15	170,328
Department of the Army	4,903,848	1,556,691	3,151,069	4,945	32,778	110,970	33,529	10,510	-	3,356
Department of the Navy	8,778,595	2,646,585	5,669,757	117,674	179,419	2,029	37,169	53,208	-	72,754
Department of the Air Force	14,055,051	2,650,824	11,173,594	9,488	31,020	34,075	660	154,310	-	1,080
Defense agencies	5,780,155	1,438,344	3,104,683	255,731	174,474	434,455	132,074	165,713	-	74,681
Test and Evaluation, Deputy Under Secretary Defense	188,710	115,126	48,300	-	634	-	-	6,178	15	18,457
Director, Operational Test and Evaluation	32,560	22,333	1,387	-	-	-	-	8,840	-	-
Department of Education	39,694	2,432	4,358	-	14,610	-	17,915	-	379	-
Department of Energy	3,060,071	148,872	604,187	1,304,453	21,455	872,444	26,134	72,278	5,951	4,297
Dept of Hlth & Human Services, total	938,548	208,644	44,800	2,382	449,646	2,976	203,851	1,747	20,274	4,228
Administration for Children and Families 3/	87,687	1,260	835	-	14,515	-	57,716	-	13,361	-
Agency for Health Care Policy & Research 4/	5,500	2,419	-	-	2,708	-	327	-	46	-
Alcohol, Drug Abuse & Mental Hlth Admin	41,452	31,089	-	-	-	-	10,363	-	-	-
National Institutes of Health	800,700	173,617	43,965	2,382	430,423	2,976	134,495	1,747	6,867	4,228
Office of Asst Secy for Health	1,100	150	-	-	-	-	950	-	-	-
Social Security Administration	2,109	109	-	-	2,000	-	-	-	-	-
Dept of Housing & Urban Development	12,663	8,093	3,614	-	102	-	854	-	-	-
Department of the Interior, total	33,295	18,200	14,474	-	482	-	-	-	139	-
Bureau of Land Management	700	450	-	-	250	-	-	-	-	-
Bureau of Mines	9,378	3,722	5,517	-	-	-	-	-	139	-
Bureau of Reclamation	478	478	-	-	-	-	-	-	-	-
Geological Survey	15,139	6,125	8,782	-	232	-	-	-	-	-
Office of the Secretary	200	25	175	-	-	-	-	-	-	-
US Fish & Wildlife Service	7,400	7,400	-	-	-	-	-	-	-	-
Department of Justice, total	20,588	10,538	4,295	210	1,138	190	1,596	-	2,621	-
Drug Enforcement Administration	2,023	250	1,288	210	85	190	-	-	-	-
Federal Bureau of Investigation	8,205	8,205	-	-	-	-	-	-	-	-
Federal Prison System	2,700	200	-	-	-	-	200	-	2,300	-
Office of Justice Programs	7,660	1,883	3,007	-	1,053	-	1,396	-	321	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-72. Federal obligations for development, by agency and performer: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	51,370	1,734	3,478	-	289	-	5,118	-	40,751	-
Employment and Training Admin	47,395	917	2,478	-	-	-	4,000	-	40,000	-
Office of the Secretary	3,810	752	900	-	289	-	1,118	-	751	-
Pension Benefit Guaranty Corporation	165	65	100	-	-	-	-	-	-	-
Department of Transportation, total	246,690	164,051	48,552	-	16,125	-	522	10,486	6,954	-
Coast Guard	15,172	10,805	4,367	-	-	-	-	-	-	-
Federal Aviation Administration	189,945	147,662	25,464	-	6,333	-	-	10,486	-	-
Federal Highway Administration	33,137	511	16,718	-	8,954	-	-	-	6,954	-
Federal Railroad Administration	1,734	692	520	-	-	-	522	-	-	-
Office of the Secretary	5,085	3,384	1,483	-	218	-	-	-	-	-
Urban Mass Transportation Admin	1,617	997	-	-	620	-	-	-	-	-
Department of the Treasury, total	6,911	1,077	5,834	-	-	-	-	-	-	-
Bureau of Engraving and Printing	719	719	-	-	-	-	-	-	-	-
Internal Revenue Service	336	217	119	-	-	-	-	-	-	-
United States Customs Service	5,800	100	5,700	-	-	-	-	-	-	-
United States Mint	56	41	15	-	-	-	-	-	-	-
Department of Veterans Affairs	22,100	20,600	-	-	1,500	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	29,335	4,058	761	-	12,604	-	6,927	-	-	4,985
Consumer Product Safety Commission	697	670	3	-	24	-	-	-	-	-
Environmental Protection Agency	104,484	21,585	55,670	-	9,968	-	9,587	-	7,674	-
Library of Congress	6,951	6,951	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	3,472,555	920,807	2,204,803	-	48,931	201,157	89,393	745	2,687	4,032
National Archives & Records Admin	110	30	40	-	-	-	-	-	-	40
Tennessee Valley Authority	43,169	21,001	-	-	270	-	21,898	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-73. Federal obligations for development, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	39,145,967	9,928,975	23,319,942	1,684,672	990,447	1,826,962	650,264	509,802	102,844	132,059
Departments										
Department of Agriculture, total	41,816	38,585	-	-	2,788	-	227	-	6	210
Agricultural Marketing Service 2/	502	502	-	-	-	-	-	-	-	-
Agricultural Research Service	35,934	33,031	-	-	2,460	-	227	-	6	210
Federal Grain Inspection Service	454	126	-	-	328	-	-	-	-	-
Forest Service	4,800	4,800	-	-	-	-	-	-	-	-
Off of Internat'l Cooperation & Development	126	126	-	-	-	-	-	-	-	-
Department of Commerce, total	81,222	29,833	46,204	-	5,185	-	-	-	-	-
Bureau of the Census	1,905	1,905	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	35,318	12,700	22,273	-	345	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	43,071	14,300	23,931	-	4,840	-	-	-	-	-
Nat'l Telecomm & Information Admin	928	928	-	-	-	-	-	-	-	-
Department of Defense, total	30,160,397	8,120,203	19,817,146	443,083	389,948	675,304	186,495	414,680	-	113,538
Department of the Army	4,771,082	1,650,087	2,947,464	2,058	25,816	79,997	32,849	30,036	-	2,775
Department of the Navy	7,970,700	2,465,035	5,102,919	130,338	148,702	2,074	16,468	52,404	-	52,760
Department of the Air Force	11,187,537	2,110,003	8,893,955	7,552	24,691	27,123	525	122,828	-	860
Defense agencies	6,018,172	1,782,811	2,815,104	303,135	190,226	562,340	136,653	191,062	-	36,841
Test and Evaluation, Deputy Under Secretary Defense	200,147	111,558	57,704	-	513	3,770	-	6,300	-	20,302
Director, Operational Test and Evaluation	12,759	709	-	-	-	-	-	12,050	-	-
Department of Education	50,882	2,505	4,634	-	10,724	9,995	22,631	-	393	-
Department of Energy	3,195,700	181,799	756,023	1,238,775	14,817	872,446	32,675	85,498	6,542	7,125
Dept of Hlth & Human Services, total	1,045,910	230,612	49,297	2,604	465,223	3,255	252,098	1,912	36,270	4,639
Administration for Children and Families 3/	139,205	1,353	999	-	16,857	-	91,319	-	28,677	-
Agency for Health Care Policy & Research 4/	8,600	2,128	-	-	5,760	-	647	-	65	-
Alcohol, Drug Abuse & Mental Hlth Admin	47,992	35,994	-	-	-	-	11,998	-	-	-
National Institutes of Health	847,900	190,874	48,298	2,604	441,006	3,255	147,784	1,912	7,528	4,639
Office of Asst Secy for Health	500	150	-	-	-	-	350	-	-	-
Social Security Administration	1,713	113	-	-	1,600	-	-	-	-	-
Dept of Housing & Urban Development	20,063	9,037	9,234	-	202	-	1,590	-	-	-
Department of the Interior, total	39,549	20,332	16,480	-	1,296	-	-	-	1,441	-
Bureau of Land Management	1,770	698	-	-	1,072	-	-	-	-	-
Bureau of Mines	8,277	4,148	2,688	-	-	-	-	-	1,441	-
Bureau of Reclamation	800	800	-	-	-	-	-	-	-	-
Geological Survey	17,672	4,350	13,127	-	195	-	-	-	-	-
Office of the Secretary	700	35	665	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	30	1	-	-	29	-	-	-	-	-
US Fish & Wildlife Service	10,300	10,300	-	-	-	-	-	-	-	-
Department of Justice, total	24,768	11,729	5,573	210	950	-	3,306	-	3,000	-
Drug Enforcement Administration	1,733	250	1,273	210	-	-	-	-	-	-
Federal Bureau of Investigation	10,679	10,679	-	-	-	-	-	-	-	-
Federal Prison System	2,800	300	-	-	-	-	200	-	2,300	-
Office of Justice Programs	9,556	500	4,300	-	950	-	3,106	-	700	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-73. Federal obligations for development, by agency and performer: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	50,617	946	4,235	-	1,105	-	4,721	-	39,600	10
Employment and Training Admin	46,348	428	2,772	-	800	-	3,348	-	39,000	-
Office of the Secretary	4,099	448	1,363	-	305	-	1,373	-	600	10
Pension Benefit Guaranty Corporation	170	70	100	-	-	-	-	-	-	-
Department of Transportation, total	268,668	172,953	62,777	-	16,733	600	1,359	6,858	7,388	-
Coast Guard	18,450	13,158	5,292	-	-	-	-	-	-	-
Federal Aviation Administration	202,310	153,122	35,821	-	5,909	600	-	6,858	-	-
Federal Highway Administration	38,663	1,263	19,366	-	10,024	-	622	-	7,388	-
Federal Railroad Administration	3,950	1,455	1,758	-	-	-	737	-	-	-
Office of the Secretary	3,695	2,955	540	-	200	-	-	-	-	-
Urban Mass Transportation Admin	1,600	1,000	-	-	600	-	-	-	-	-
Department of the Treasury, total	7,662	2,130	5,532	-	-	-	-	-	-	-
Bureau of Engraving and Printing	1,680	1,680	-	-	-	-	-	-	-	-
Internal Revenue Service	357	238	119	-	-	-	-	-	-	-
United States Customs Service	4,682	150	4,532	-	-	-	-	-	-	-
United States Mint	943	62	881	-	-	-	-	-	-	-
Department of Veterans Affairs	22,300	20,800	-	-	1,500	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	32,444	4,015	1,146	-	13,593	-	11,551	-	-	2,139
Consumer Product Safety Commission	430	345	85	-	-	-	-	-	-	-
Environmental Protection Agency	82,743	19,393	38,650	-	9,350	-	9,850	-	5,500	-
Library of Congress	7,611	7,611	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	3,970,767	1,035,580	2,502,926	-	56,763	265,362	102,180	854	2,704	4,398
National Archives & Records Admin	80	80	-	-	-	-	-	-	-	-
Tennessee Valley Authority	42,338	20,487	-	-	270	-	21,581	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-74. Federal obligations for development, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	44,744,008	10,497,213	27,939,677	1,759,435	1,019,884	2,093,128	650,054	534,950	115,559	134,108
Departments										
Department of Agriculture, total	43,860	40,618	-	-	2,788	-	238	-	6	210
Agricultural Marketing Service 2/	536	536	-	-	-	-	-	-	-	-
Agricultural Research Service	38,030	35,116	-	-	2,460	-	238	-	6	210
Federal Grain Inspection Service	454	126	-	-	328	-	-	-	-	-
Forest Service	4,700	4,700	-	-	-	-	-	-	-	-
Off of Internat'l Cooperation & Development	140	140	-	-	-	-	-	-	-	-
Department of Commerce, total	86,867	43,152	42,802	-	913	-	-	-	-	-
Bureau of the Census	1,905	1,905	-	-	-	-	-	-	-	-
Nat'l Institute of Standards & Tech	35,734	17,336	17,969	-	429	-	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	46,247	20,930	24,833	-	484	-	-	-	-	-
Nat'l Telecomm & Information Admin	2,981	2,981	-	-	-	-	-	-	-	-
Department of Defense, total	34,858,426	8,524,568	24,042,170	457,176	365,815	750,702	198,905	418,321	503	100,266
Department of the Army	5,595,173	1,668,682	3,718,754	1,792	21,061	143,971	9,390	27,823	-	3,700
Department of the Navy	7,487,611	2,385,752	4,711,474	131,066	152,702	1,792	16,933	50,696	-	37,196
Department of the Air Force	14,264,461	2,690,320	11,340,072	9,629	31,482	34,583	669	156,610	-	1,096
Defense agencies	7,222,047	1,592,811	4,200,657	314,689	159,570	570,356	171,913	153,777	-	58,274
Test and Evaluation, Deputy Under Secretary Defense	275,032	186,401	71,213	-	1,000	-	-	15,915	503	-
Director, Operational Test and Evaluation	14,102	602	-	-	-	-	-	13,500	-	-
Department of Education	57,175	3,730	4,886	-	19,005	-	27,066	-	2,488	-
Department of Energy	3,556,298	209,904	945,078	1,299,484	25,474	935,583	15,223	103,879	5,416	16,257
Dept of Hlth & Human Services, total	1,109,249	246,760	52,469	2,775	494,774	3,468	251,383	2,038	50,640	4,942
Administration for Children and Families 3/	144,433	1,436	1,010	-	20,238	-	79,139	-	42,610	-
Agency for Health Care Policy & Research 4/	3,100	2,024	-	-	958	-	108	-	10	-
Alcohol, Drug Abuse & Mental Hlth Admin	53,046	39,785	-	-	-	-	13,261	-	-	-
National Institutes of Health	907,100	203,365	51,459	2,775	473,578	3,468	157,455	2,038	8,020	4,942
Office of Asst Secy for Health	1,570	150	-	-	-	-	1,420	-	-	-
Dept of Housing & Urban Development	23,180	8,404	11,789	-	202	-	2,785	-	-	-
Department of the Interior, total	41,620	24,174	14,383	-	2,463	-	600	-	-	-
Bureau of Land Management	3,737	1,474	-	-	2,263	-	-	-	-	-
Bureau of Mines	5,476	4,825	651	-	-	-	-	-	-	-
Bureau of Reclamation	1,100	500	-	-	-	-	600	-	-	-
Geological Survey	18,007	5,100	12,707	-	200	-	-	-	-	-
Office of the Secretary	1,100	75	1,025	-	-	-	-	-	-	-
US Fish & Wildlife Service	12,200	12,200	-	-	-	-	-	-	-	-
Department of Justice, total	24,966	13,032	5,953	-	500	500	1,956	300	2,725	-
Drug Enforcement Administration	2,478	325	1,353	-	-	500	-	300	-	-
Federal Bureau of Investigation	10,832	10,832	-	-	-	-	-	-	-	-
Federal Prison System	2,700	300	-	-	-	-	100	-	2,300	-
Office of Justice Programs	8,956	1,575	4,600	-	500	-	1,856	-	425	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-74. Federal obligations for development, by agency and performer: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	37,211	763	2,173	-	1,275	-	1,950	-	31,050	-
Employment and Training Admin	33,522	350	947	-	225	-	1,000	-	31,000	-
Office of the Secretary	3,619	343	1,226	-	1,050	-	950	-	50	-
Pension Benefit Guaranty Corporation	70	70	-	-	-	-	-	-	-	-
Department of Transportation, total	298,981	195,593	63,348	-	15,266	-	1,604	9,499	13,671	-
Coast Guard	21,300	15,287	6,013	-	-	-	-	-	-	-
Federal Aviation Administration	208,287	170,134	25,879	-	2,775	-	-	9,499	-	-
Federal Highway Administration	50,609	2,813	29,020	-	8,291	-	814	-	9,671	-
Federal Railroad Administration	4,388	1,900	1,698	-	-	-	790	-	-	-
Office of the Secretary	5,038	4,300	738	-	-	-	-	-	-	-
Urban Mass Transportation Admin	9,359	1,159	-	-	4,200	-	-	-	4,000	-
Department of the Treasury, total	9,930	1,885	8,045	-	-	-	-	-	-	-
Bureau of Engraving and Printing	1,435	1,435	-	-	-	-	-	-	-	-
Internal Revenue Service	357	238	119	-	-	-	-	-	-	-
United States Customs Service	7,827	150	7,677	-	-	-	-	-	-	-
United States Mint	311	62	249	-	-	-	-	-	-	-
Department of Veterans Affairs	22,300	20,800	-	-	1,500	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	56,663	3,366	30,251	-	13,011	-	1,993	-	-	8,042
Consumer Product Safety Commission	270	70	200	-	-	-	-	-	-	-
Environmental Protection Agency	87,497	12,865	43,606	-	12,541	-	12,035	-	6,450	-
Library of Congress	7,925	7,925	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	4,367,157	1,107,567	2,672,524	-	63,898	402,875	112,379	913	2,610	4,391
National Archives & Records Admin	90	90	-	-	-	-	-	-	-	-
Tennessee Valley Authority	54,343	31,947	-	-	459	-	21,937	-	-	-

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

4/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-75. Federal funds for R&D plant, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Total, all agencies	2,283,617	3,009,413	3,056,545	2,029,663	2,480,594	3,008,586
Departments						
Department of Agriculture, total	102,239	150,309	113,276	124,242	146,461	121,279
Agricultural Research Service	44,377	79,074	82,176	55,283	68,073	69,883
Animal & Plant Health Inspection Svc	6,061	-	2,500	6,061	-	2,500
Cooperative State Research Service	46,901	66,835	25,000	57,998	73,988	45,296
Forest Service	4,900	4,400	3,600	4,900	4,400	3,600
Department of Commerce, total	15,367	20,726	23,611	14,650	20,835	23,195
National Institute of Standards & Technology	8,767	15,426	20,511	8,050	15,535	20,095
National Oceanic & Atmospheric Administration	6,600	5,300	3,100	6,600	5,300	3,100
Department of Defense, total	487,349	478,978	432,908	436,827	454,424	460,577
Department of the Army	53,127	52,580	19,172	46,818	38,248	16,923
Department of the Navy	60,424	165,603	75,111	101,186	97,201	102,356
Department of the Air Force	322,200	213,500	311,800	200,200	256,800	293,700
Defense agencies	51,598	47,295	26,825	88,623	62,175	47,598
Department of Education	8,900	6,900	2,100	2,762	5,438	3,664
Department of Energy	916,041	992,540	1,335,525	856,935	890,983	1,174,945
Department of Health and Human Services, total	107,800	244,010	122,415	55,100	112,410	160,315
Food & Drug Administration	23,000	2,500	1,000	1,000	4,100	9,500
National Institutes of Health	84,800	241,500	121,400	54,100	108,300	150,800
Social Security Administration	-	10	15	-	10	15
Department of the Interior, total	14,049	14,722	6,022	10,511	10,560	4,892
Bureau of Mines	3,024	597	597	3,024	597	597
Geological Survey	1,335	1,775	1,825	1,299	1,728	1,826
Minerals Management Service	190	250	500	188	235	469
United States Fish and Wildlife Service	9,500	12,100	3,100	6,000	8,000	2,000
Department of Transportation, total	21,792	20,950	26,685	16,717	19,270	26,890
Coast Guard	400	400	400	400	400	400
Federal Aviation Administration	21,392	18,300	25,800	16,271	17,350	25,418
Federal Railroad Administration	-	2,250	485	46	1,520	1,072
Department of the Treasury, total	125	125	125	125	125	125
Office of Protective Research	25	25	25	25	25	25
United States Customs Service	100	100	100	100	100	100
Department of Veterans Affairs	3,300	11,100	5,100	12,400	6,500	5,500
Other agencies						
Agency for International Development	13,364	12,888	14,232	13,910	15,296	25,575
General Services Administration	17,324	30,428	-	-	9,240	23,287
National Aeronautics and Space Administration	527,008	949,230	829,056	437,866	721,612	849,665
National Science Foundation	39,287	73,172	140,313	38,100	64,400	123,500
Smithsonian Institution	4,769	3,270	4,055	4,615	2,975	4,055
Tennessee Valley Authority	4,903	65	1,122	4,903	65	1,122

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-76. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Intramural	Extramural							
			United States and territories							Foreign
			Industrial Firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	2,283,617	359,681	883,985	231,009	155,809	495,791	121,292	31,385	526	3,939
Departments										
Department of Agriculture, total	102,239	57,037	-	-	45,091	-	-	-	111	-
Agricultural Research Service	44,377	44,377	-	-	-	-	-	-	-	-
Animal & Plant Health Inspection Svc	6,061	6,061	-	-	-	-	-	-	-	-
Cooperative State Research Service	46,901	1,699	-	-	45,091	-	-	-	111	-
Forest Service	4,900	4,900	-	-	-	-	-	-	-	-
Department of Commerce, total	15,367	11,855	3,376	-	71	65	-	-	-	-
Nat'l Institute of Standards & Tech	8,767	5,255	3,376	-	71	65	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	6,600	6,600	-	-	-	-	-	-	-	-
Department of Defense, total	487,349	136,930	284,864	21,558	-	23,647	-	20,350	-	-
Department of the Army	53,127	53,127	-	-	-	-	-	-	-	-
Department of the Navy	60,424	60,424	-	-	-	-	-	-	-	-
Department of the Air Force	322,200	23,379	246,832	9,488	-	22,151	-	20,350	-	-
Defense agencies	51,598	-	38,032	12,070	-	1,496	-	-	-	-
Department of Education	8,900	-	-	-	8,900	-	-	-	-	-
Department of Energy	916,041	1,913	75,358	209,451	56,728	448,783	112,773	11,035	-	-
Dept of Hlth & Human Services, total	107,800	96,818	-	-	10,764	-	203	-	15	-
Food & Drug Administration	23,000	23,000	-	-	-	-	-	-	-	-
National Institutes of Health	84,800	73,818	-	-	10,764	-	203	-	15	-
Department of the Interior, total	14,049	11,140	2,909	-	-	-	-	-	-	-
Bureau of Mines	3,024	1,450	1,574	-	-	-	-	-	-	-
Geological Survey	1,335	-	1,335	-	-	-	-	-	-	-
Minerals Management Service	190	190	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	9,500	9,500	-	-	-	-	-	-	-	-
Department of Transportation, total	21,792	21,392	-	-	-	-	-	-	400	-
Coast Guard	400	-	-	-	-	-	-	-	400	-
Federal Aviation Administration	21,392	21,392	-	-	-	-	-	-	-	-
Department of the Treasury, total	125	125	-	-	-	-	-	-	-	-
Office of Protective Research	25	25	-	-	-	-	-	-	-	-
United States Customs Service	100	100	-	-	-	-	-	-	-	-
Department of Veterans Affairs	3,300	3,300	-	-	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	13,364	922	1,059	-	-	-	8,316	-	-	3,067
General Services Administration	17,324	-	-	-	17,324	-	-	-	-	-
National Aeronautics & Space Admin	527,008	6,541	505,377	-	1,345	12,873	-	-	-	872
National Science Foundation	39,287	2,236	11,042	-	15,586	10,423	-	-	-	-
Smithsonian Institution	4,769	4,769	-	-	-	-	-	-	-	-
Tennessee Valley Authority	4,903	4,903	-	-	-	-	-	-	-	-

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-77. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural	Extramural							
			United States and territories							Foreign
			Industrial Firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	3,009,413	654,471	1,141,028	194,276	173,115	645,929	151,795	39,948	552	8,299
Departments										
Department of Agriculture, total	150,309	85,930	-	-	64,227	-	-	-	152	-
Agricultural Research Service	79,074	79,074	-	-	-	-	-	-	-	-
Cooperative State Research Service	66,835	2,456	-	-	64,227	-	-	-	152	-
Forest Service	4,400	4,400	-	-	-	-	-	-	-	-
Department of Commerce, total	20,726	13,118	7,472	-	71	65	-	-	-	-
Nat'l Institute of Standards & Tech	15,426	7,818	7,472	-	71	65	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	5,300	5,300	-	-	-	-	-	-	-	-
Department of Defense, total	478,978	234,900	190,038	7,332	-	24,344	-	22,364	-	-
Department of the Army	52,580	52,580	-	-	-	-	-	-	-	-
Department of the Navy	165,603	165,603	-	-	-	-	-	-	-	-
Department of the Air Force	213,500	16,717	145,500	4,575	-	24,344	-	22,364	-	-
Defense agencies	47,295	-	44,538	2,757	-	-	-	-	-	-
Department of Education	6,900	35	-	-	6,865	-	-	-	-	-
Department of Energy	992,540	13,236	86,684	186,944	26,073	518,670	143,349	17,584	-	-
Dept of Hlth & Human Services, total	244,010	244,000	10	-	-	-	-	-	-	-
Food & Drug Administration	2,500	2,500	-	-	-	-	-	-	-	-
National Institutes of Health	241,500	241,500	-	-	-	-	-	-	-	-
Social Security Administration	10	-	10	-	-	-	-	-	-	-
Department of the Interior, total	14,722	12,647	2,075	-	-	-	-	-	-	-
Bureau of Mines	597	297	300	-	-	-	-	-	-	-
Geological Survey	1,775	-	1,775	-	-	-	-	-	-	-
Minerals Management Service	250	250	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	12,100	12,100	-	-	-	-	-	-	-	-
Department of Transportation, total	20,950	20,550	-	-	-	-	-	-	400	-
Coast Guard	400	-	-	-	-	-	-	-	400	-
Federal Aviation Administration	18,300	18,300	-	-	-	-	-	-	-	-
Federal Railroad Administration	2,250	2,250	-	-	-	-	-	-	-	-
Department of the Treasury, total	125	125	-	-	-	-	-	-	-	-
Office of Protective Research	25	25	-	-	-	-	-	-	-	-
United States Customs Service	100	100	-	-	-	-	-	-	-	-
Department of Veterans Affairs	11,100	11,100	-	-	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	12,888	739	988	-	-	2,545	6,056	-	-	2,560
General Services Administration	30,428	-	-	-	30,428	-	-	-	-	-
National Aeronautics & Space Admin	949,230	11,760	837,761	-	-	93,970	-	-	-	5,739
National Science Foundation	73,172	2,996	16,000	-	45,451	6,335	2,390	-	-	-
Smithsonian Institution	3,270	3,270	-	-	-	-	-	-	-	-
Tennessee Valley Authority	65	65	-	-	-	-	-	-	-	-

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-78. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Intramural	Extramural							
			United States and territories							Foreign
			Industrial Firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	3,042,313	425,804	1,126,840	195,490	146,352	678,559	438,112	42,162	400	2,826
Departments										
Department of Agriculture, total	113,276	89,026	-	-	24,250	-	-	-	-	-
Agricultural Research Service	82,176	82,176	-	-	-	-	-	-	-	-
Animal & Plant Health Inspection Svc	2,500	2,500	-	-	-	-	-	-	-	-
Cooperative State Research Service	25,000	750	-	-	24,250	-	-	-	-	-
Forest Service	3,600	3,600	-	-	-	-	-	-	-	-
Department of Commerce, total	23,611	9,411	14,064	-	71	65	-	-	-	-
Nat'l Institute of Standards & Tech	20,511	6,311	14,064	-	71	65	-	-	-	-
Nat'l Oceanic & Atmospheric Admin	3,100	3,100	-	-	-	-	-	-	-	-
Department of Defense, total	432,908	130,421	265,231	4,394	-	17,127	-	15,735	-	-
Department of the Army	19,172	19,172	-	-	-	-	-	-	-	-
Department of the Navy	75,111	75,111	-	-	-	-	-	-	-	-
Department of the Air Force	311,800	36,138	238,900	3,900	-	17,127	-	15,735	-	-
Defense agencies	26,825	-	26,331	494	-	-	-	-	-	-
Department of Education	2,100	1	-	-	2,099	-	-	-	-	-
Department of Energy	1,335,525	19,229	54,593	191,096	23,241	590,722	430,217	26,427	-	-
Dept of Hlth & Human Services, total	122,415	122,400	15	-	-	-	-	-	-	-
Food & Drug Administration	1,000	1,000	-	-	-	-	-	-	-	-
National Institutes of Health	121,400	121,400	-	-	-	-	-	-	-	-
Social Security Administration	15	-	15	-	-	-	-	-	-	-
Department of the Interior, total	6,022	3,897	2,125	-	-	-	-	-	-	-
Bureau of Mines	597	297	300	-	-	-	-	-	-	-
Geological Survey	1,825	-	1,825	-	-	-	-	-	-	-
Minerals Management Service	500	500	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	3,100	3,100	-	-	-	-	-	-	-	-
Department of Transportation, total	26,685	26,285	-	-	-	-	-	-	400	-
Coast Guard	400	-	-	-	-	-	-	-	400	-
Federal Aviation Administration	25,800	25,800	-	-	-	-	-	-	-	-
Federal Railroad Administration	485	485	-	-	-	-	-	-	-	-
Department of the Treasury, total	125	125	-	-	-	-	-	-	-	-
Office of Protective Research	25	25	-	-	-	-	-	-	-	-
United States Customs Service	100	100	-	-	-	-	-	-	-	-
Department of Veterans Affairs	5,100	5,100	-	-	-	-	-	-	-	-
Other agencies										
Agency for Internat'l Development	-	563	1,013	-	-	1,935	7,895	-	-	2,826
National Aeronautics & Space Admin	829,056	11,119	773,799	-	-	44,138	-	-	-	-
National Science Foundation	140,313	3,050	16,000	-	96,691	24,572	-	-	-	-
Smithsonian Institution	4,055	4,055	-	-	-	-	-	-	-	-
Tennessee Valley Authority	1,122	1,122	-	-	-	-	-	-	-	-

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-79. Federal obligations for research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Field of science and engineering	1990	Estimates	
		1991	1992
Total, all fields	7,787,386	8,718,128	9,089,039
Life sciences, total	4,532,098	4,989,912	5,288,468
Biological (excluding environmental)	2,406,847	2,632,298	2,839,823
Environmental biology	127,929	140,885	143,487
Agricultural	134,430	161,735	176,273
Medical	1,728,615	1,917,529	1,980,763
Life sciences, n.e.c.	134,277	137,465	148,122
Psychology, total	237,474	267,701	283,066
Biological aspects	78,718	91,942	100,183
Social aspects	70,671	81,540	80,503
Psychological sciences, n.e.c.	88,085	94,219	102,380
Physical sciences, total	1,001,514	1,103,183	1,152,396
Astronomy	82,167	90,262	101,357
Chemistry	317,381	330,339	351,093
Physics	546,293	621,113	623,804
Physical sciences, n.e.c.	55,673	61,469	76,142
Environmental sciences, total	488,755	559,812	594,755
Atmospheric	129,912	143,226	163,665
Geological	138,327	141,576	149,338
Oceanography	181,984	209,897	227,980
Environmental sciences, n.e.c.	38,532	65,113	53,772
Mathematics & computer sciences, total	414,929	459,835	476,712
Mathematics	129,191	145,032	142,305
Computer sciences	281,950	307,565	325,929
Mathematics & computer sciences, n.e.c.	3,788	7,238	8,478
Engineering, total	712,715	867,164	853,182
Aeronautical	84,045	91,585	102,202
Astronautical	20,215	21,944	30,364
Chemical	58,523	45,299	47,545
Civil	42,885	52,050	57,137
Electrical	138,159	142,806	149,940
Mechanical	77,484	85,066	92,998
Metallurgy & materials	165,529	215,013	181,678
Engineering, n.e.c.	125,875	213,401	191,118
Social sciences, total	175,261	227,071	184,534
Anthropology	8,098	8,875	9,511
Economics	49,214	57,307	48,572
Political science	5,507	6,496	7,135
Sociology	57,559	82,628	53,326
Social sciences, n.e.c.	54,883	71,765	65,990
Other sciences, n.e.c.	224,640	243,450	255,926

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal years 1990, 1991 and 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-80. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	7,787,386	4,532,098	237,474	1,001,514	488,755	414,929	712,715	175,261	224,640
Departments									
Department of Agriculture, total	346,008	275,141	-	14,427	1,515	417	16,181	38,327	-
Agricultural Cooperative Service	223	-	-	-	-	-	-	223	-
Agricultural Marketing Service 1/	79	79	-	-	-	-	-	-	-
Agricultural Research Service	30,721	30,542	-	-	-	76	103	-	-
Animal & Plant Health Inspection Svc	387	387	-	-	-	-	-	-	-
Cooperative State Research Service	298,948	231,869	-	14,427	744	-	16,078	35,830	-
Economic Research Service	1,288	-	-	-	-	-	-	1,288	-
Federal Grain Inspection Service	93	93	-	-	-	-	-	-	-
Forest Service	12,300	10,420	-	-	771	123	-	986	-
Human Nutrition Information Service	1,531	1,531	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	218	-	-	-	-	218	-	-	-
Off of Internat'l Cooperation & Dev	220	220	-	-	-	-	-	-	-
Department of Defense, total	795,087	55,176	28,315	101,269	96,913	195,320	311,309	58	6,727
Department of the Army	84,466	18,053	3,900	12,029	5,596	7,846	36,852	58	132
Department of the Navy	226,107	18,251	13,980	38,880	63,154	21,896	69,646	-	300
Department of the Air Force	181,862	13,759	8,973	37,041	7,976	18,602	95,511	-	-
Defense agencies	302,652	5,113	1,462	13,319	20,187	146,976	109,300	-	6,295
Department of Energy	478,937	51,391	-	274,194	45,871	20,397	81,306	-	5,778
Dept of Hlth & Human Services, total	4,424,619	3,905,581	195,631	83,703	-	6,005	35,303	92,843	105,553
Admin. for Children & Families 2/	2,421	-	-	-	-	-	-	2,421	-
Agency for Health Care Policy & Research 3/	20,777	-	-	-	-	-	-	20,777	-
Alcohol, Drug Abuse & Mental Hlth Admin	474,119	294,216	121,045	1,880	-	1,183	806	40,451	14,538
Centers for Disease Control	29,632	29,632	-	-	-	-	-	-	-
Food & Drug Administration	5,940	5,940	-	-	-	-	-	-	-
Health Care Financing Admin	8,369	-	-	-	-	-	-	8,369	-
Health Resources and Services Administration	6,265	6,265	-	-	-	-	-	-	-
National Institutes of Health	3,874,457	3,569,528	74,586	81,823	-	4,822	34,497	18,186	91,015
Office of the Secretary	539	-	-	-	-	-	-	539	-
Social Security Administration	2,100	-	-	-	-	-	-	2,100	-
Other agencies									
National Aeronautics & Space Admin	421,815	27,983	3,843	137,571	92,602	26,825	116,736	84	16,171
National Science Foundation	1,320,920	216,826	9,685	390,350	251,854	165,965	151,880	43,949	90,411

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-81. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering : fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	8,718,128	4,989,912	267,701	1,103,183	559,812	459,835	867,164	227,071	243,450
Departments									
Department of Agriculture, total	405,571	328,056	-	16,365	1,764	523	17,599	41,265	-
Agricultural Cooperative Service	223	-	-	-	-	-	-	223	-
Agricultural Research Service	68,540	38,316	-	-	-	95	129	-	-
Animal & Plant Health Inspection Svc	437	437	-	-	-	-	-	-	-
Cooperative State Research Service	348,213	275,005	-	16,365	780	-	17,469	38,594	-
Economic Research Service	1,200	-	-	-	-	-	-	1,200	-
Forest Service	15,600	13,213	-	-	984	155	-	1,248	-
Human Nutrition Information Service	860	860	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	273	-	-	-	-	273	-	-	-
Off of Internat'l Cooperation & Dev	225	225	-	-	-	-	-	-	-
Department of Defense, total	1,021,285	69,320	31,799	118,447	128,368	215,381	440,655	10,064	7,251
Department of the Army	85,590	19,422	3,528	13,029	5,351	10,312	33,688	64	196
Department of the Navy	246,215	18,794	14,399	42,681	72,712	22,188	75,115	-	326
Department of the Air Force	169,095	10,663	11,042	37,607	6,163	18,710	84,910	-	-
Defense agencies	520,385	20,441	2,830	25,130	44,142	164,171	246,942	10,000	6,729
Department of Energy	561,938	115,591	-	314,630	39,893	15,304	70,534	-	5,986
Dept of Hlth & Human Services, total	4,812,918	4,213,520	219,941	88,916	-	6,176	29,692	126,851	117,822
Admin. for Children & Families 1/	4,047	-	-	-	-	-	-	4,047	-
Agency for Health Care Policy & Research 2/	41,891	-	-	-	-	-	-	41,891	-
Alcohol, Drug Abuse & Mental Hlth Admin	546,948	341,031	140,433	2,232	-	1,418	966	48,331	14,537
Centers for Disease Control	29,632	29,632	-	-	-	-	-	-	-
Food & Drug Administration	6,600	6,600	-	-	-	-	-	-	-
Health Care Financing Admin	10,426	-	-	-	-	-	-	10,426	-
Health Resources and Services Administration	5,650	5,650	-	-	-	-	-	-	-
National Institutes of Health	4,161,474	3,830,607	79,508	86,684	-	4,758	28,726	17,906	103,285
Office of the Secretary	4,000	-	-	-	-	-	-	4,000	-
Social Security Administration	2,250	-	-	-	-	-	-	2,250	-
Other agencies									
National Aeronautics & Space Admin	476,237	31,593	4,339	155,321	104,550	30,296	131,797	95	18,256
National Science Foundation	1,440,179	231,832	11,622	409,504	285,237	192,165	166,888	48,796	94,135

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 98 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-62. Federal obligations for research performed at universities and colleges, by agency and field of science and engineering : fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	9,089,039	5,288,468	283,066	1,152,396	594,755	476,712	853,182	184,534	255,926
Departments									
Department of Agriculture, total	406,684	339,875	-	16,272	1,746	519	13,287	34,985	-
Agricultural Cooperative Service	223	-	-	-	-	-	-	223	-
Agricultural Research Service	38,540	38,316	-	-	-	95	129	-	-
Animal & Plant Health Inspection Svc	443	443	-	-	-	-	-	-	-
Cooperative State Research Service	349,045	286,466	-	16,272	794	-	13,158	32,355	-
Economic Research Service	1,200	-	-	-	-	-	-	1,200	-
Forest Service	15,100	12,790	-	-	952	151	-	1,207	-
Human Nutrition Information Service	1,620	1,620	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	273	-	-	-	-	273	-	-	-
Off of Internat'l Cooperation & Dev	240	240	-	-	-	-	-	-	-
Department of Defense, total	920,829	70,358	29,357	114,729	108,279	202,227	394,984	55	839
Department of the Army	90,257	18,017	3,700	13,545	8,058	13,057	33,339	55	486
Department of the Navy	260,116	20,323	15,590	44,909	75,130	23,664	80,149	-	343
Department of the Air Force	197,369	9,721	9,282	40,503	8,570	20,141	109,152	-	-
Defense agencies	373,076	22,297	777	15,772	16,521	145,365	172,344	-	-
Department of Energy	465,970	60,270	-	291,117	41,857	9,491	61,005	-	2,230
Dept of Hlth & Human Services, total	5,121,377	4,522,179	235,869	95,537	-	6,638	42,626	92,798	125,730
Admin. for Children & Families 1/	3,964	-	-	-	-	-	-	3,964	-
Agency for Health Care Policy & Research 2/	6,967	-	-	-	-	-	-	6,967	-
Alcohol, Drug Abuse & Mental Hlth Admin	585,836	366,255	150,494	2,455	-	1,529	1,042	49,514	14,537
Centers for Disease Control	29,632	29,632	-	-	-	-	-	-	-
Food & Drug Administration	7,518	7,518	-	-	-	-	-	-	-
Health Care Financing Admin	9,576	-	-	-	-	-	-	9,576	-
Health Resources and Services Administration	5,500	5,500	-	-	-	-	-	-	-
National Institutes of Health	4,468,834	4,113,264	85,375	93,082	-	5,109	41,584	19,227	111,193
Office of the Secretary	1,000	-	-	-	-	-	-	1,000	-
Social Security Administration	2,550	-	-	-	-	-	-	2,550	-
Other agencies									
National Aeronautics & Space Admin	536,102	35,565	4,884	174,845	117,691	34,093	148,364	107	20,553
National Science Foundation	1,638,078	260,221	12,956	459,896	329,182	223,744	192,916	56,589	106,574

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-83. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	237,474	78,718	70,671	88,085	4,532,098	2,406,847	127,929	134,430	1,728,615	134,277
Departments										
Department of Agriculture, total	-	-	-	-	275,141	74,986	52,675	133,632	13,848	-
Agricultural Marketing Service 1/	-	-	-	-	79	-	-	79	-	-
Agricultural Research Service	-	-	-	-	30,542	16,382	496	13,664	-	-
Animal & Plant Health Inspection Svc	-	-	-	-	387	-	-	387	-	-
Cooperative State Research Service	-	-	-	-	231,869	50,014	50,349	117,658	13,848	-
Federal Grain Inspection Service	-	-	-	-	93	-	-	93	-	-
Forest Service	-	-	-	-	10,420	8,590	1,830	-	-	-
Human Nutrition Information Service	-	-	-	-	1,531	-	-	1,531	-	-
Off of Internat'l Cooperation & Dev	-	-	-	-	220	-	-	220	-	-
Department of Defense, total	28,315	6,176	13,563	8,576	55,176	21,817	7,014	-	20,766	5,579
Department of the Army	3,900	-	3,830	70	18,053	2,462	212	-	15,379	-
Department of the Navy	13,980	6,176	5,374	2,430	18,251	10,315	2,136	-	5,302	498
Department of the Air Force	8,973	-	2,897	6,076	13,759	4,009	4,584	-	85	5,081
Defense agencies	1,462	-	1,462	-	5,113	5,031	82	-	-	-
Department of Energy	-	-	-	-	51,391	37,604	330	50	11,590	1,817
Dept of Hlth & Human Services, total	195,631	68,567	50,377	76,687	3,905,581	2,107,375	646	164	1,676,197	121,199
Alcohol, Drug Abuse & Mental Hlth Admin	121,045	68,567	50,377	2,101	294,216	174,402	513	164	103,315	15,822
Centers for Disease Control	-	-	-	-	29,632	-	-	-	29,632	-
Food & Drug Administration	-	-	-	-	5,940	2,614	-	-	3,326	-
Health Resources and Services Administration	-	-	-	-	6,265	-	-	-	6,265	-
National Institutes of Health	74,586	-	-	74,586	3,569,528	1,930,359	133	-	1,533,659	105,377
Other agencies										
National Aeronautics & Space Admin	3,843	85	950	2,808	27,983	13,797	2,537	584	6,214	4,851
National Science Foundation	9,685	3,890	5,781	14	216,826	151,268	64,727	-	-	831

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-84. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering : fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	267,701	91,942	81,540	94,219	4,989,912	2,632,298	140,885	161,735	1,917,529	137,465
Departments										
Department of Agriculture, total	-	-	-	-	328,056	95,113	57,023	160,861	15,059	-
Agricultural Research Service	-	-	-	-	38,316	20,539	622	17,155	-	-
Animal & Plant Health Inspection Svc	-	-	-	-	437	-	-	437	-	-
Cooperative State Research Service	-	-	-	-	275,005	63,685	54,077	142,184	15,059	-
Forest Service	-	-	-	-	13,213	10,889	2,324	-	-	-
Human Nutrition Information Service	-	-	-	-	860	-	-	860	-	-
Off of Internat'l Cooperation & Dev	-	-	-	-	225	-	-	225	-	-
Department of Defense, total	31,799	6,342	16,321	9,136	69,320	27,343	11,575	-	29,873	529
Department of the Army	3,528	-	3,320	208	19,422	2,448	53	-	16,921	-
Department of the Navy	14,399	6,342	5,564	2,493	18,794	11,298	2,197	-	4,770	529
Department of the Air Force	11,042	-	4,607	6,435	10,663	4,246	6,417	-	-	-
Defense agencies	2,830	-	2,830	-	20,441	9,351	2,908	-	8,182	-
Department of Energy	-	-	-	-	115,591	41,227	322	50	72,022	1,970
Dept of Hlth & Human Services, total	219,941	80,576	57,468	81,897	4,213,520	2,290,765	581	165	1,793,560	128,449
Alcohol, Drug Abuse & Mental Hlth Admin	140,433	80,576	57,468	2,389	341,031	199,943	513	165	122,339	18,071
Centers for Disease Control	-	-	-	-	29,632	-	-	-	29,632	-
Food & Drug Administration	-	-	-	-	6,600	2,904	-	-	3,696	-
Health Resources and Services Administration	-	-	-	-	5,650	-	-	-	5,650	-
National Institutes of Health	79,508	-	-	79,508	3,830,607	2,087,918	68	-	1,632,243	110,378
Other agencies										
National Aeronautics & Space Admin	4,339	96	1,072	3,171	31,593	15,577	2,864	659	7,015	5,478
National Science Foundation	11,622	4,928	6,679	15	231,832	162,273	68,520	-	-	1,039

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-85. Federal obligations for research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering : fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	283,066	100,183	80,503	102,380	5,288,468	2,839,823	143,487	176,273	1,980,763	148,122
Departments										
Department of Agriculture, total	-	-	-	-	339,875	108,933	50,360	175,320	5,262	-
Agricultural Research Service	-	-	-	-	38,316	20,539	622	17,155	-	-
Animal & Plant Health Inspection Svc	-	-	-	-	443	-	-	443	-	-
Cooperative State Research Service	-	-	-	-	286,466	77,854	47,488	155,862	5,262	-
Forest Service	-	-	-	-	12,790	10,540	2,250	-	-	-
Human Nutrition Information Service	-	-	-	-	1,620	-	-	1,620	-	-
Off of Internat'l Cooperation & Dev	-	-	-	-	240	-	-	240	-	-
Department of Defense, total	29,357	7,667	11,797	9,893	70,358	24,728	12,879	-	32,193	558
Department of the Army	3,700	-	3,400	300	18,017	2,609	53	-	15,355	-
Department of the Navy	15,598	6,890	6,006	2,702	20,323	12,027	2,380	-	5,358	558
Department of the Air Force	9,282	-	2,391	6,891	9,721	4,547	5,078	-	96	-
Defense agencies	777	777	-	-	22,297	5,545	5,368	-	11,384	-
Department of Energy	-	-	-	-	60,270	45,701	354	50	11,617	2,548
Dept of Hlth & Human Services, total	235,869	86,904	60,063	88,902	4,522,179	2,459,976	586	161	1,923,794	137,662
Alcohol, Drug Abuse & Mental Hlth Admin	150,494	86,904	60,063	3,527	366,265	214,675	513	161	131,774	19,142
Centers for Disease Control	-	-	-	-	29,632	-	-	-	29,632	-
Food & Drug Administration	-	-	-	-	7,518	3,308	-	-	4,210	-
Health Resources and Services Administration	-	-	-	-	5,500	-	-	-	5,500	-
National Institutes of Health	85,375	-	-	85,375	4,113,264	2,241,993	73	-	1,752,678	118,520
Other agencies										
National Aeronautics & Space Admin	4,884	108	1,208	3,568	35,565	17,535	3,226	742	7,897	6,165
National Science Foundation	12,956	5,504	7,435	17	260,221	182,950	76,082	-	-	1,189

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-86. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	1,001,514	82,167	317,381	546,293	55,673	488,755	129,912	138,327	181,984	38,532
Departments										
Department of Agriculture, total	14,427	-	14,427	-	-	1,515	1,136	379	-	-
Cooperative State Research Service	14,427	-	14,427	-	-	744	744	-	-	-
Forest Service	-	-	-	-	-	771	392	379	-	-
Department of Defense, total	101,269	2,261	41,864	56,296	848	96,913	14,660	35,828	44,814	1,611
Department of the Army	12,029	-	5,795	6,219	15	5,596	2,931	1,609	-	1,056
Department of the Navy	38,880	29	16,203	22,463	185	63,154	4,506	20,706	37,387	555
Department of the Air Force	37,041	2,232	17,066	17,352	391	7,976	5,589	2,387	-	-
Defense agencies	13,319	-	2,800	10,262	257	20,187	1,634	11,126	7,427	-
Department of Energy	274,194	-	44,676	228,154	1,364	45,871	17,821	24,219	3,318	513
Dept of Hlth & Human Services, total	83,703	-	79,850	3,704	149	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,880	-	1,880	-	-	-	-	-	-	-
National Institutes of Health	81,823	-	77,970	3,704	149	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	137,571	46,134	5,977	72,223	13,237	92,602	40,224	17,060	8,718	26,600
National Science Foundation	390,350	33,772	130,587	185,916	40,075	251,854	56,071	60,841	125,134	9,808

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-87. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering : fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c
Total, all agencies	1,103,183	90,262	330,339	621,113	61,469	559,812	143,226	141,576	209,897	65,113
Departments										
Department of Agriculture, total	16,365	-	16,365	-	-	1,764	1,280	484	-	-
Cooperative State Research Service	16,365	-	16,365	-	-	780	780	-	-	-
Forest Service	-	-	-	-	-	984	500	484	-	-
Department of Defense, total	118,447	2,398	46,989	68,291	769	128,368	14,028	36,014	57,144	21,182
Department of the Army	13,029	-	6,181	6,818	30	5,351	2,856	1,505	-	990
Department of the Navy	42,681	34	17,667	24,777	203	72,712	4,573	22,235	45,334	570
Department of the Air Force	37,607	2,364	16,837	18,110	296	6,163	3,764	2,399	-	-
Defense agencies	25,130	-	6,304	18,586	240	44,142	2,835	9,875	11,810	19,622
Department of Energy	314,630	-	36,858	274,869	2,903	39,893	20,652	15,782	2,612	847
Dept of Hlth & Human Services, total	88,916	-	85,116	3,616	184	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	2,232	-	2,232	-	-	-	-	-	-	-
National Institutes of Health	86,684	-	82,884	3,616	184	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	155,321	52,086	6,749	81,541	14,945	104,550	45,414	19,261	9,843	30,032
National Science Foundation	409,504	35,778	138,262	192,796	42,668	285,237	61,852	70,035	140,298	13,052

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-88. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering : fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c
Total, all agencies	1,152,396	101,357	351,093	623,804	76,142	594,755	163,665	149,338	227,980	53,772
Departments										
Department of Agriculture, total	16,272	-	16,272	-	-	1,746	1,278	468	-	-
Cooperative State Research Service	16,272	-	16,272	-	-	794	794	-	-	-
Forest Service	-	-	-	-	-	952	484	468	-	-
Department of Defense, total	114,729	2,625	46,888	64,538	678	108,279	18,511	32,152	53,633	3,983
Department of the Army	13,545	-	6,497	7,018	30	8,058	3,109	1,584	-	3,365
Department of the Navy	44,909	36	19,059	25,597	217	75,130	5,321	24,026	45,165	618
Department of the Air Force	40,503	2,531	18,097	19,546	329	8,570	5,979	2,591	-	-
Defense agencies	15,772	58	3,235	12,377	102	16,521	4,102	3,951	8,468	-
Department of Energy	291,117	-	35,679	251,398	4,040	41,857	22,339	15,092	3,418	1,008
Dept of Hlth & Human Services, total	95,537	-	91,458	3,883	196	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	2,455	-	2,455	-	-	-	-	-	-	-
National Institutes of Health	93,082	-	89,003	3,883	196	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	174,845	58,633	7,597	91,792	16,823	117,691	51,122	21,682	11,080	33,807
National Science Foundation	459,896	40,099	153,199	212,193	54,405	325,182	70,415	79,944	159,849	14,974

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-89. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	712,715	84,045	20,215	58,523	42,885	138,159	77,484	165,529	125,875
Departments									
Department of Agriculture, total	16,181	-	-	103	-	-	-	-	16,078
Agricultural Research Service	103	-	-	103	-	-	-	-	-
Cooperative State Research Service	16,078	-	-	-	-	-	-	-	16,078
Department of Defense, total	311,309	40,051	10,655	1,380	11,790	86,235	32,530	118,750	9,918
Department of the Army	36,852	3,858	340	638	4,042	15,305	4,231	6,072	2,366
Department of the Navy	69,646	1,173	2,969	473	880	25,702	21,870	16,454	125
Department of the Air Force	95,511	30,549	6,420	269	2,871	33,884	5,285	15,456	777
Defense agencies	109,300	4,471	926	-	3,997	11,344	1,144	80,768	6,650
Department of Energy	81,306	-	-	22,897	2,398	1,942	9,384	20,989	23,696
Dept of Hlth & Human Services, total	35,303	-	-	-	-	-	-	-	35,303
Alcohol, Drug Abuse & Mental Hlth Admin	806	-	-	-	-	-	-	-	806
National Institutes of Health	34,497	-	-	-	-	-	-	-	34,497
Other agencies									
National Aeronautics & Space Admin	116,736	43,365	9,560	2,071	151	8,670	9,053	18,938	24,928
National Science Foundation	151,880	629	-	32,072	28,546	41,312	26,517	6,852	15,952

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-90. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of science and engineering : fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	867,164	91,585	21,944	45,299	52,050	142,806	85,066	215,013	213,401
Departments									
Department of Agriculture, total	17,598	-	-	129	-	-	-	-	17,469
Agricultural Research Service	129	-	-	129	-	-	-	-	-
Cooperative State Research Service	17,469	-	-	-	-	-	-	-	17,469
Department of Defense, total	440,655	41,947	11,151	1,285	19,346	83,966	35,505	164,608	82,847
Department of the Army	33,688	3,101	29	425	5,552	11,860	3,660	5,677	3,384
Department of the Navy	75,115	1,012	3,251	518	964	27,837	24,848	16,548	137
Department of the Air Force	84,910	29,297	6,081	342	5,280	25,869	4,869	12,412	760
Defense agencies	246,942	8,537	1,790	-	7,550	18,400	2,128	129,971	78,566
Department of Energy	70,534	-	-	6,953	1,737	1,504	10,747	21,654	27,939
Dept of Hlth & Human Services, total	39,692	-	-	-	-	-	-	-	39,692
Alcohol, Drug Abuse & Mental Hlth Admin	966	-	-	-	-	-	-	-	966
National Institutes of Health	38,726	-	-	-	-	-	-	-	38,726
Other agencies									
National Aeronautics & Space Admin	131,797	48,960	10,793	2,339	170	9,788	10,221	21,381	28,145
National Science Foundation	166,868	678	-	34,593	30,797	47,548	28,593	7,370	17,309

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-91. Federal obligations for research performed at universities and colleges in engineering, by agency and detailed field of science and engineering : fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	853,182	102,202	30,364	47,545	57,137	149,940	92,998	181,878	191,118
Departments									
Department of Agriculture, total	13,287	-	-	129	-	-	-	-	13,158
Agricultural Research Service	129	-	-	129	-	-	-	-	-
Cooperative State Research Service	13,158	-	-	-	-	-	-	-	13,158
Department of Defense, total	394,984	46,310	18,214	1,645	18,223	80,461	39,157	131,128	59,846
Department of the Army	33,339	3,429	25	375	6,337	11,856	3,771	6,369	1,177
Department of the Navy	80,149	848	3,475	554	1,030	30,081	26,041	17,974	146
Department of the Air Force	109,152	36,407	13,044	423	4,396	32,256	6,099	15,587	940
Defense agencies	172,344	5,626	1,670	293	6,460	6,268	3,246	91,198	57,583
Department of Energy	61,005	-	-	3,429	3,360	2,631	9,501	18,136	23,948
Dept of Hlth & Human Services, total	42,626	-	-	-	-	-	-	-	42,626
Alcohol, Drug Abuse & Mental Hlth Admin	1,042	-	-	-	-	-	-	-	1,042
National Institutes of Health	41,584	-	-	-	-	-	-	-	41,584
Other agencies									
National Aeronautics & Space Admin	148,364	55,114	12,150	2,632	192	11,020	11,506	24,069	31,681
National Science Foundation	192,916	778	-	39,710	35,362	55,828	32,834	8,545	19,859

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-92. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	414,929	129,191	281,950	3,788	175,261	8,098	49,214	5,507	57,559	54,883
Departments										
Department of Agriculture, total	417	353	64	-	38,327	-	31,420	-	6,907	-
Agricultural Cooperative Service	-	-	-	-	223	-	223	-	-	-
Agricultural Research Service	76	12	64	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	35,830	-	28,923	-	6,907	-
Economic Research Service	-	-	-	-	1,288	-	1,288	-	-	-
Forest Service	123	123	-	-	986	-	986	-	-	-
Nat'l Agricultural Statistics Svc	218	218	-	-	-	-	-	-	-	-
Department of Defense, total	195,320	36,551	157,037	1,732	58	-	35	-	23	-
Department of the Army	7,846	3,627	4,164	55	58	-	35	-	23	-
Department of the Navy	21,896	11,036	10,805	55	-	-	-	-	-	-
Department of the Air Force	18,602	12,483	6,119	-	-	-	-	-	-	-
Defense agencies	146,976	9,405	135,949	1,622	-	-	-	-	-	-
Department of Energy	20,397	17,155	3,242	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	6,005	5,642	363	-	92,843	794	5,516	2,010	46,424	38,099
Admin. for Children & Families 1/	-	-	-	-	2,421	-	-	-	-	2,421
Agency for Health Care Policy & Research 2/	-	-	-	-	20,777	-	2,285	-	18,492	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,183	820	363	-	40,451	794	2,752	2,010	27,872	7,023
Health Care Financing Admin	-	-	-	-	8,369	-	-	-	-	8,369
National Institutes of Health	4,822	4,822	-	-	18,186	-	-	-	-	18,186
Office of the Secretary	-	-	-	-	539	-	479	-	60	-
Social Security Administration	-	-	-	-	2,100	-	-	-	-	2,100
Other agencies										
National Aeronautics & Space Admin	26,825	989	23,780	2,056	84	-	-	-	74	10
National Science Foundation	165,965	68,501	97,464	-	43,949	7,304	12,243	3,497	4,131	16,774

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-93. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering : fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political Science	Sociology	Social sciences n.e.c.
Total, all agencies	459,835	145,032	307,565	7,238	227,071	8,875	57,307	6,496	82,628	71,765
Departments										
Department of Agriculture, total	523	443	80	-	41,265	-	33,980	-	7,285	-
Agricultural Cooperative Service	-	-	-	-	223	-	223	-	-	-
Agricultural Research Service	95	15	80	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	38,594	-	31,309	-	7,285	-
Economic Research Service	-	-	-	-	1,200	-	1,200	-	-	-
Forest Service	155	155	-	-	1,248	-	1,248	-	-	-
Nat'l Agricultural Statistics Svc	273	273	-	-	-	-	-	-	-	-
Department of Defense, total	215,381	44,720	165,744	4,917	10,064	-	38	-	26	10,000
Department of the Army	10,312	4,689	5,385	238	64	-	38	-	26	-
Department of the Navy	22,188	10,589	11,138	61	-	-	-	-	-	-
Department of the Air Force	18,710	13,191	5,169	350	-	-	-	-	-	-
Defense agencies	164,171	15,851	144,052	4,268	10,000	-	-	-	-	10,000
Department of Energy	15,304	11,602	3,702	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	6,176	5,673	503	-	126,851	836	9,903	2,570	70,666	42,876
Admin. for Children & Families 1/	-	-	-	-	4,047	-	-	-	-	4,047
Agency for Health Care Policy & Research 2/	-	-	-	-	41,891	-	4,608	-	37,283	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,418	983	435	-	46,331	836	2,895	2,370	31,983	8,247
Health Care Financing Admin	-	-	-	-	10,426	-	-	-	-	10,426
National Institutes of Health	4,758	4,690	68	-	17,906	-	-	-	-	17,906
Office of the Secretary	-	-	-	-	4,000	-	2,400	200	1,400	-
Social Security Administration	-	-	-	-	2,250	-	-	-	-	2,250
Other agencies										
National Aeronautics & Space Admin	30,286	1,117	26,848	2,321	95	-	-	-	84	11
National Science Foundation	192,165	81,477	110,688	-	48,796	8,039	13,386	3,926	4,567	18,878

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-94. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering : fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political Science	Sociology	Social sciences n.e.c.
Total, all agencies	476,712	142,305	325,929	8,478	184,534	9,511	48,572	7,135	53,326	65,990
Departments										
Department of Agriculture, total	519	439	80	-	34,985	-	27,769	-	7,216	-
Agricultural Cooperative Service	-	-	-	-	223	-	223	-	-	-
Agricultural Research Service	95	15	80	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	32,355	-	25,139	-	7,216	-
Economic Research Service	-	-	-	-	1,200	-	1,200	-	-	-
Forest Service	151	151	-	-	1,207	-	1,207	-	-	-
Nat'l Agricultural Statistics Svc	273	273	-	-	-	-	-	-	-	-
Department of Defense, total	202,227	37,950	158,413	5,864	55	-	33	-	22	-
Department of the Army	13,057	5,160	7,759	138	55	-	33	-	22	-
Department of the Navy	23,664	11,679	11,920	65	-	-	-	-	-	-
Department of the Air Force	20,141	14,140	5,613	388	-	-	-	-	-	-
Defense agencies	145,365	6,971	133,121	5,273	-	-	-	-	-	-
Department of Energy	9,491	5,302	4,189	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	6,638	6,096	542	-	92,798	856	4,328	2,590	40,714	44,310
Admin. for Children & Families 1/	-	-	-	-	3,964	-	-	-	-	3,964
Agency for Health Care Policy & Research 2/	-	-	-	-	6,967	-	766	-	6,201	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,529	1,060	469	-	49,514	856	2,962	2,540	34,163	8,993
Health Care Financing Admin	-	-	-	-	9,576	-	-	-	-	9,576
National Institutes of Health	5,109	5,036	73	-	19,227	-	-	-	-	19,227
Office of the Secretary	-	-	-	-	1,000	-	600	50	350	-
Social Security Administration	-	-	-	-	2,550	-	-	-	-	2,550
Other agencies										
National Aeronautics & Space Admin	34,093	1,257	30,222	2,614	107	-	-	-	94	13
National Science Foundation	223,744	91,261	132,483	-	56,589	8,655	16,442	4,545	5,280	21,667

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 96 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-95. Federal obligations for basic research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Field of science and engineering	1990	Estimates	
		1991	1992
Total, all fields	5,470,029	6,059,811	6,336,543
Life sciences, total	3,067,639	3,260,847	3,515,408
Biological (excluding environmental)	1,724,891	1,851,406	2,001,070
Environmental biology	86,934	93,360	96,338
Agricultural	72,521	84,512	99,626
Medical	1,094,500	1,146,033	1,226,460
Life sciences, n.e.c.	88,793	85,536	92,114
Psychology, total	141,717	157,370	167,244
Biological aspects	42,313	48,989	52,714
Social aspects	40,600	45,582	45,878
Psychological sciences, n.e.c.	58,804	62,799	67,652
Physical sciences, total	828,867	928,996	961,834
Astronomy	77,917	85,485	95,993
Chemistry	275,968	292,748	313,614
Physics	424,544	496,402	484,648
Physical sciences, n.e.c.	50,438	54,361	67,579
Environmental sciences, total	455,947	529,332	563,884
Atmospheric	120,021	132,978	152,420
Geological	123,255	130,272	142,205
Oceanography	179,317	207,034	224,761
Environmental sciences, n.e.c.	33,354	59,048	44,498
Mathematics & computer sciences, total	293,411	329,945	344,264
Mathematics	124,889	140,487	137,423
Computer sciences	166,507	187,275	202,475
Mathematics & computer sciences, n.e.c.	2,015	2,183	4,366
Engineering, total	458,197	604,844	522,339
Aeronautical	53,237	58,400	63,539
Astronautical	8,656	10,517	11,494
Chemical	32,397	30,277	33,822
Civil	32,829	41,961	44,221
Electrical	95,224	99,481	101,691
Mechanical	61,773	69,552	75,767
Metallurgy & materials	121,826	158,529	131,736
Engineering, n.e.c.	52,255	136,177	60,069
Social sciences, total	70,019	85,236	91,922
Anthropology	7,773	8,526	9,151
Economics	19,287	20,044	20,697
Political science	3,679	4,197	4,757
Sociology	15,456	16,833	17,864
Social sciences, n.e.c.	23,814	35,636	29,553
Other sciences, n.e.c.	154,232	163,241	180,348

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal years 1990, 1991 and 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-96. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	9,479,029	3,067,639	141,717	828,867	455,947	293,411	458,197	70,019	154,232
Departments									
Department of Agriculture, total	183,955	140,752	-	6,706	514	98	5,253	10,642	-
Agricultural Research Service	17,648	17,565	-	-	-	44	59	-	-
Cooperative State Research Service	161,676	119,436	-	6,706	235	-	5,194	10,105	-
Economic Research Service	180	-	-	-	-	-	-	180	-
Forest Service	4,451	3,771	-	-	279	44	-	357	-
Department of Defense, total	523,586	39,944	23,387	61,591	84,365	89,205	204,849	-	245
Department of the Army	58,954	9,159	2,803	10,966	3,900	7,260	24,725	-	-
Department of the Navy	194,441	17,323	13,046	30,457	62,055	39,807	50,725	-	28
Department of the Air Force	138,812	9,338	6,076	29,918	3,341	15,125	56,034	-	-
Defense agencies	131,379	5,113	1,462	10,250	15,069	46,913	73,365	-	217
Department of Energy	334,436	38,420	-	199,041	37,178	20,287	39,383	-	17
Dept of Hlth & Human Services, total	2,983,656	2,617,071	105,027	67,742	-	4,037	25,306	24,248	60,225
Alcohol, Drug Abuse & Mental Hlth Admin	215,597	131,190	58,545	1,071	-	705	604	14,267	9,013
National Institutes of Health	2,688,059	2,485,881	46,482	66,671	-	3,332	24,500	9,981	51,212
Other agencies									
National Aeronautics & Space Admin	387,909	23,115	3,673	96,619	65,356	24,679	63,849	84	10,534
National Science Foundation	1,236,487	208,337	9,630	377,168	248,534	155,089	119,597	35,045	83,211

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 98 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-97. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	6,059,811	3,260,847	157,370	928,996	529,332	329,945	604,844	85,236	163,241
Departments									
Department of Agriculture, total	186,254	162,916	-	7,195	570	110	5,122	10,341	-
Agricultural Research Service	22,140	22,011	-	-	-	55	74	-	-
Cooperative State Research Service	158,398	136,207	-	7,195	220	-	5,048	9,728	-
Economic Research Service	169	-	-	-	-	-	-	169	-
Forest Service	5,547	4,698	-	-	350	55	-	444	-
Department of Defense, total	717,802	48,305	24,958	97,931	114,615	103,174	318,789	10,000	30
Department of the Army	57,777	9,458	2,317	11,583	3,823	8,948	21,648	-	-
Department of the Navy	211,536	17,778	13,376	33,456	71,509	20,995	54,394	-	28
Department of the Air Force	111,710	8,810	6,435	31,685	1,856	16,018	46,906	-	-
Defense agencies	336,779	12,259	2,830	21,207	37,427	57,213	195,841	10,000	2
Department of Energy	391,788	42,284	-	248,212	36,499	15,304	49,489	-	-
Dept of Hlth & Human Services, total	3,070,740	2,758,695	116,700	71,209	-	4,066	29,052	25,639	65,379
Alcohol, Drug Abuse & Mental Hlth Admin	245,173	150,157	67,253	1,278	-	845	966	15,806	8,868
National Institutes of Health	2,825,567	2,608,538	49,447	69,931	-	3,221	28,086	9,833	56,511
Other agencies									
National Aeronautics & Space Admin	347,635	26,097	4,147	109,085	96,369	27,063	72,087	95	11,892
National Science Foundation	1,345,592	222,550	11,565	395,364	281,279	179,428	130,305	39,161	85,940

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-98. Federal obligations for basic research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	6,336,543	3,515,608	167,244	961,834	563,884	344,264	522,339	81,022	180,348
Departments									
Department of Agriculture, total	204,138	183,388	-	7,741	556	109	3,769	8,575	-
Agricultural Research Service	22,140	22,011	-	-	-	55	74	-	-
Cooperative State Research Service	176,460	156,829	-	7,741	218	-	3,695	7,977	-
Economic Research Service	168	-	-	-	-	-	-	168	-
Forest Service	5,370	4,548	-	-	338	54	-	430	-
Department of Defense, total	575,234	44,600	24,818	94,009	94,771	91,385	225,627	-	24
Department of the Army	62,605	10,132	2,645	12,422	4,001	9,849	23,556	-	-
Department of the Navy	223,050	19,237	14,505	35,049	73,844	22,389	58,002	-	24
Department of the Air Force	127,820	9,434	6,891	33,929	3,789	17,153	56,624	-	-
Defense agencies	161,759	5,797	777	12,609	13,137	41,994	87,445	-	-
Department of Energy	344,573	47,103	-	216,552	39,402	9,491	32,025	-	-
Dept of Hlth & Human Services, total	3,295,238	2,961,598	124,875	76,499	-	4,370	31,203	27,140	69,553
Alcohol, Drug Abuse & Mental Hlth Admin	260,979	160,399	71,775	1,403	-	911	1,042	16,581	8,868
National Institutes of Health	3,034,259	2,801,199	53,100	75,096	-	3,459	30,161	10,559	60,685
Other agencies									
National Aeronautics & Space Admin	391,334	29,378	4,668	122,797	108,482	31,366	81,148	107	13,388
National Science Foundation	1,526,026	249,541	12,883	444,236	320,673	207,543	148,567	45,200	97,383

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-99. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	141,717	42,313	40,600	58,804	3,067,639	1,724,891	86,934	72,521	1,094,500	88,793
Departments										
Department of Agriculture, total	-	-	-	-	140,752	45,863	16,221	71,835	6,833	-
Agricultural Research Service	-	-	-	-	17,545	11,542	285	5,718	-	-
Cooperative State Research Service	-	-	-	-	119,436	31,212	15,274	66,117	6,833	-
Forest Service	-	-	-	-	3,771	3,109	662	-	-	-
Department of Defense, total	23,387	6,033	8,778	8,576	39,944	21,630	6,616	-	11,200	498
Department of the Army	2,803	-	2,733	70	9,190	2,462	197	-	6,531	-
Department of the Navy	13,046	6,033	4,583	2,430	17,323	10,128	2,028	-	4,669	498
Department of the Air Force	6,076	-	-	6,076	8,318	4,009	4,309	-	-	-
Defense agencies	1,462	-	1,462	-	5,113	5,031	82	-	-	-
Department of Energy	-	-	-	-	38,420	36,514	230	-	-	1,676
Dept of Hlth & Human Services, total	105,027	32,324	25,167	47,536	2,617,071	1,464,280	366	102	1,070,597	81,726
Alcohol, Drug Abuse & Mental Hlth Admin	58,545	32,324	25,167	1,054	131,190	85,058	318	102	37,841	7,871
National Institutes of Health	46,482	-	-	46,482	2,485,881	1,379,222	48	-	1,032,756	73,855
Other agencies										
National Aeronautics & Space Admin	3,673	85	910	2,678	23,115	10,511	2,072	584	5,870	4,078
National Science Foundation	9,630	3,871	5,745	14	208,337	146,093	61,429	-	-	815

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-100. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	157,370	48,989	45,582	62,799	3,260,847	1,851,406	93,360	84,512	1,146,033	85,536
Departments										
Department of Agriculture, total	-	-	-	-	162,916	56,659	15,858	83,753	6,646	-
Agricultural Research Service	-	-	-	-	22,011	14,479	358	7,174	-	-
Cooperative State Research Service	-	-	-	-	136,207	38,308	14,674	76,579	6,646	-
Forest Service	-	-	-	-	4,698	3,872	826	-	-	-
Department of Defense, total	24,958	6,185	9,637	9,136	48,305	27,139	9,585	-	11,052	529
Department of the Army	2,317	-	2,109	208	9,458	2,448	34	-	6,976	-
Department of the Navy	13,376	6,185	4,698	2,493	17,778	11,094	2,079	-	4,076	529
Department of the Air Force	6,435	-	-	6,435	8,810	4,246	4,564	-	-	-
Defense agencies	2,830	-	2,830	-	12,259	9,351	2,908	-	-	-
Department of Energy	-	-	-	-	42,284	40,721	222	-	-	1,341
Dept of Hlth & Human Services, total	116,700	37,805	28,271	50,624	2,758,695	1,558,507	341	100	1,121,708	78,039
Alcohol, Drug Abuse & Mental Hlth Admin	67,253	37,805	28,271	1,177	150,157	96,389	313	100	44,517	8,838
National Institutes of Health	49,447	-	-	49,447	2,608,538	1,462,118	28	-	1,077,191	69,201
Other agencies										
National Aeronautics & Space Admin	4,147	96	1,027	3,024	26,097	11,867	2,339	659	6,627	4,605
National Science Foundation	11,565	4,903	6,647	15	222,550	156,513	65,015	-	-	1,022

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-101. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	167,244	53,714	45,878	67,652	3,515,608	2,001,070	96,338	99,626	1,226,460	92,114
Departments										
Department of Agriculture, total	-	-	-	-	183,388	68,665	13,680	98,786	2,257	-
Agricultural Research Service	-	-	-	-	22,011	14,479	358	7,174	-	-
Cooperative State Research Service	-	-	-	-	156,829	50,438	12,522	91,612	2,257	-
Forest Service	-	-	-	-	4,548	3,748	800	-	-	-
Department of Defense, total	24,818	7,484	7,441	9,893	44,600	24,510	7,256	-	12,276	558
Department of the Army	2,645	-	2,345	300	10,132	2,609	17	-	7,506	-
Department of the Navy	14,505	6,707	5,096	2,702	19,237	11,809	2,254	-	4,616	558
Department of the Air Force	6,891	-	-	6,891	9,434	4,547	4,887	-	-	-
Defense agencies	777	777	-	-	5,797	5,545	98	-	154	-
Department of Energy	-	-	-	-	47,103	45,300	229	-	-	1,574
Dept of Hlth & Human Services, total	124,875	40,660	29,876	54,339	2,961,598	1,673,061	343	98	1,204,467	83,629
Alcohol, Drug Abuse & Mental Hlth Admin	71,775	40,660	29,876	1,239	160,399	102,953	313	98	47,716	9,319
National Institutes of Health	53,100	-	-	53,100	2,801,199	1,570,108	30	-	1,156,751	74,310
Other agencies										
National Aeronautics & Space Admin	4,668	108	1,157	3,403	29,378	13,359	2,634	742	7,460	5,183
National Science Foundation	12,883	5,462	7,404	17	249,541	176,175	72,196	-	-	1,170

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-102. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	828,867	77,917	275,968	424,544	50,438	455,947	120,021	123,255	179,317	33,354
Departments										
Department of Agriculture, total	6,706	-	6,706	-	-	514	377	137	-	-
Cooperative State Research Service	6,706	-	6,706	-	-	235	235	-	-	-
Forest Service	-	-	-	-	-	279	142	137	-	-
Department of Defense, total	81,591	2,261	37,511	41,804	15	84,365	9,763	29,917	44,021	664
Department of the Army	10,966	-	5,014	5,937	15	3,900	2,227	1,564	-	109
Department of the Navy	30,457	29	15,420	15,008	-	62,055	4,298	20,608	36,594	555
Department of the Air Force	29,918	2,232	14,277	13,409	-	3,341	1,605	1,736	-	-
Defense agencies	10,250	-	2,800	7,450	-	15,069	1,633	6,009	7,427	-
Department of Energy	199,041	-	35,225	162,904	912	37,178	17,649	16,004	3,318	207
Dept of Hlth & Human Services, total	67,742	-	64,936	2,657	149	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,071	-	1,071	-	-	-	-	-	-	-
National Institutes of Health	66,671	-	63,865	2,657	149	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	96,619	42,140	5,832	36,755	11,892	85,356	36,899	16,980	8,718	22,759
National Science Foundation	377,168	33,516	125,758	180,424	37,470	248,534	55,333	60,217	123,260	9,724

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-103. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c
Total, all agencies	928,996	85,485	292,748	496,402	54,361	529,332	132,978	130,272	207,034	59,048
Departments										
Department of Agriculture, total	7,195	-	7,195	-	-	570	398	172	-	-
Cooperative State Research Service	7,195	-	7,195	-	-	220	220	-	-	-
Forest Service	-	-	-	-	-	350	178	172	-	-
Department of Defense, total	97,931	2,398	43,414	52,089	30	114,615	9,532	28,576	56,275	20,232
Department of the Army	11,583	-	5,181	6,372	30	3,823	2,334	1,449	-	40
Department of the Navy	33,456	34	16,809	16,613	-	71,509	4,346	22,128	44,465	570
Department of the Air Force	31,685	2,364	15,120	14,201	-	1,856	17	1,839	-	-
Defense agencies	21,207	-	6,304	14,903	-	37,427	2,835	3,160	11,810	19,622
Department of Energy	248,212	-	33,970	213,361	881	36,499	20,432	13,286	2,612	169
Dept of Hlth & Human Services, total	71,209	-	68,470	2,600	139	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,278	-	1,278	-	-	-	-	-	-	-
National Institutes of Health	69,931	-	67,192	2,600	139	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	109,085	47,577	6,585	41,497	13,426	96,369	41,660	19,171	9,843	25,695
National Science Foundation	395,364	35,510	133,114	186,855	39,885	281,279	60,956	69,067	138,304	12,952

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-104. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c
Total, all agencies	961,834	95,993	313,614	484,648	67,579	563,884	152,420	142,205	224,761	44,498
Departments										
Department of Agriculture, total	7,741	-	7,741	-	-	556	390	166	-	-
Cooperative State Research Service	7,741	-	7,741	-	-	218	218	-	-	-
Forest Service	-	-	-	-	-	338	172	166	-	-
Department of Defense, total	94,009	2,625	43,265	48,089	30	94,771	13,336	27,968	52,704	763
Department of the Army	12,422	-	5,697	6,695	30	4,001	2,336	1,520	-	145
Department of the Navy	35,049	36	18,142	16,871	-	73,844	5,078	23,912	44,236	618
Department of the Air Force	33,929	2,531	16,191	15,207	-	3,789	1,820	1,969	-	-
Defense agencies	12,609	58	3,235	9,316	-	13,137	4,102	567	8,468	-
Department of Energy	216,552	-	34,241	181,402	909	39,402	22,314	13,661	3,418	9
Dept of Hlth & Human Services, total	76,499	-	73,558	2,792	149	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,403	-	1,403	-	-	-	-	-	-	-
National Institutes of Health	75,096	-	72,155	2,792	149	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	122,797	53,557	7,412	46,714	15,114	108,482	46,896	21,580	11,080	28,926
National Science Foundation	444,236	39,811	147,397	205,651	51,377	320,673	69,484	78,830	157,559	14,800

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-105. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	458,197	53,237	8,656	32,397	32,829	95,224	61,773	121,826	52,255
Departments									
Department of Agriculture, total	5,253	-	-	59	-	-	-	-	5,194
Agricultural Research Service	59	-	-	59	-	-	-	-	-
Cooperative State Research Service	5,194	-	-	-	-	-	-	-	5,194
Department of Defense, total	204,849	26,602	926	84	7,537	55,691	24,714	87,115	2,180
Department of the Army	24,735	3,062	-	84	938	11,795	2,998	5,828	30
Department of the Navy	50,725	700	-	-	-	18,936	17,842	13,247	-
Department of the Air Force	56,034	18,369	-	-	2,602	19,010	2,730	13,323	-
Defense agencies	73,355	4,471	926	-	3,997	5,950	1,144	54,717	2,150
Department of Energy	39,383	-	-	6,077	-	-	8,992	20,949	3,365
Dept of Hlth & Human Services, total	25,306	-	-	-	-	-	-	-	25,306
Alcohol, Drug Abuse & Mental Hlth Admin	806	-	-	-	-	-	-	-	806
National Institutes of Health	24,500	-	-	-	-	-	-	-	24,500
Other agencies									
National Aeronautics & Space Admin	63,849	26,103	7,730	1,633	151	6,397	7,216	8,975	5,644
National Science Foundation	119,557	532	-	24,544	25,141	33,136	20,851	4,787	10,566

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-106. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	604,844	58,400	10,517	30,277	41,961	99,451	69,552	158,509	136,177
Departments									
Department of Agriculture, total	5,122	-	-	74	-	-	-	-	5,048
Agricultural Research Service	74	-	-	74	-	-	-	-	-
Cooperative State Research Service	5,048	-	-	-	-	-	-	-	5,048
Department of Defense, total	318,789	28,356	1,790	35	14,665	55,232	28,347	121,603	68,761
Department of the Army	21,648	2,570	-	35	2,139	9,137	2,434	5,303	30
Department of the Navy	54,394	494	-	-	-	20,428	20,436	13,036	-
Department of the Air Force	46,906	16,755	-	-	4,976	11,428	3,349	10,398	-
Defense agencies	195,841	8,537	1,790	-	7,550	14,239	2,128	92,866	68,731
Department of Energy	49,489	-	-	1,845	-	-	10,587	21,618	15,439
Dept of Hlth & Human Services, total	29,052	-	-	-	-	-	-	-	29,052
Alcohol, Drug Abuse & Mental Hlth Admin	966	-	-	-	-	-	-	-	966
National Institutes of Health	28,086	-	-	-	-	-	-	-	28,086
Other agencies									
National Aeronautics & Space Admin	72,087	29,471	8,727	1,844	170	7,222	8,147	10,133	6,373
National Science Foundation	130,305	573	-	26,479	27,126	36,997	22,471	5,155	11,504

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-107. Federal obligations for basic research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	522,339	63,539	11,494	33,822	44,221	101,691	75,767	131,736	60,069
Departments									
Department of Agriculture, total	3,769	-	-	74	-	-	-	-	3,695
Agricultural Research Service	74	-	-	74	-	-	-	-	-
Cooperative State Research Service	3,695	-	-	-	-	-	-	-	3,695
Department of Defense, total	225,627	29,706	1,670	325	12,860	52,294	31,391	96,250	1,131
Department of the Army	23,556	2,891	-	32	2,380	9,704	2,600	5,904	45
Department of the Navy	58,002	294	-	-	-	22,162	21,326	14,220	-
Department of the Air Force	56,624	20,895	-	-	4,020	14,394	4,219	13,096	-
Defense agencies	87,445	5,626	1,670	293	6,460	6,034	3,246	63,030	1,086
Department of Energy	32,025	-	-	910	-	-	9,383	18,090	3,642
Dept of Hlth & Human Services, total	31,203	-	-	-	-	-	-	-	31,203
Alcohol, Drug Abuse & Mental Hlth Admin	1,042	-	-	-	-	-	-	-	1,042
National Institutes of Health	30,161	-	-	-	-	-	-	-	30,161
Other agencies									
National Aeronautics & Space Admin	81,148	33,175	9,824	2,075	192	8,131	9,171	11,407	7,173
National Science Foundation	148,567	658	-	30,438	31,169	41,266	25,822	5,989	13,225

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-108. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	293,411	124,889	166,507	2,015	70,019	7,773	19,297	3,679	15,456	23,814
Departments										
Department of Agriculture, total	88	51	37	-	10,642	-	8,391	-	2,251	-
Agricultural Research Service	44	7	37	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	10,105	-	7,854	-	2,251	-
Economic Research Service	-	-	-	-	180	-	180	-	-	-
Forest Service	44	44	-	-	357	-	357	-	-	-
Department of Defense, total	89,205	35,706	53,317	182	-	-	-	-	-	-
Department of the Army	7,360	3,554	3,806	-	-	-	-	-	-	-
Department of the Navy	20,807	11,006	9,801	-	-	-	-	-	-	-
Department of the Air Force	15,125	12,100	3,025	-	-	-	-	-	-	-
Defense agencies	45,913	9,046	36,685	182	-	-	-	-	-	-
Department of Energy	20,397	17,155	3,242	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	4,037	3,674	363	-	24,248	481	1,543	936	10,073	11,215
Alcohol, Drug Abuse & Mental Hlth Admin	705	342	363	-	14,267	481	1,543	936	10,073	1,234
National Institutes of Health	3,332	3,332	-	-	9,981	-	-	-	-	9,981
Other agencies										
National Aeronautics & Space Admin	24,679	944	21,902	1,833	84	-	-	-	74	10
National Science Foundation	155,006	67,359	87,646	-	35,045	7,292	9,363	2,743	3,058	12,589

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-109. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: Fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	329,945	140,487	187,275	2,183	85,236	8,526	20,044	4,197	16,833	35,636
Departments										
Department of Agriculture, total	110	64	46	-	10,341	-	8,218	-	2,123	-
Agricultural Research Service	55	9	46	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	9,728	-	7,605	-	2,123	-
Economic Research Service	-	-	-	-	169	-	169	-	-	-
Forest Service	55	55	-	-	444	-	444	-	-	-
Department of Defense, total	103,174	44,229	58,832	114	10,000	-	-	-	-	10,000
Department of the Army	8,948	4,607	4,341	-	-	-	-	-	-	-
Department of the Navy	20,985	10,956	10,029	-	-	-	-	-	-	-
Department of the Air Force	16,018	12,814	3,204	-	-	-	-	-	-	-
Defense agencies	57,213	15,851	41,258	114	10,000	-	-	-	-	10,000
Department of Energy	15,304	11,602	3,702	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	4,066	3,603	463	-	25,439	499	1,579	1,096	11,209	11,260
Alcohol, Drug Abuse & Mental Hlth Admin	845	410	435	-	15,906	499	1,579	1,096	11,209	1,427
National Institutes of Health	3,221	3,193	28	-	9,833	-	-	-	-	9,833
Other agencies										
National Aeronautics & Space Admin	27,863	1,066	24,728	2,069	95	-	-	-	84	11
National Science Foundation	179,428	79,924	99,504	-	39,161	8,027	10,247	3,101	3,421	14,365

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-11D. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: Fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	344,264	137,423	202,475	4,366	61,022	9,151	20,887	4,757	17,864	28,553
Departments										
Department of Agriculture, total	159	63	46	-	8,575	-	6,231	-	2,344	-
Agricultural Research Service	95	9	46	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	7,977	-	5,933	-	2,044	-
Economic Research Service	-	-	-	-	198	-	198	-	-	-
Forest Service	64	54	-	-	430	-	430	-	-	-
Department of Defense, total	91,388	37,433	51,916	2,039	-	-	-	-	-	-
Department of the Army	9,849	5,097	4,752	-	-	-	-	-	-	-
Department of the Navy	22,389	11,643	10,746	-	-	-	-	-	-	-
Department of the Air Force	17,153	13,722	3,431	-	-	-	-	-	-	-
Defense agencies	41,994	6,971	33,987	2,039	-	-	-	-	-	-
Department of Energy	9,491	5,302	4,189	-	-	-	-	-	-	-
Dept of Hlth & Human Services, total	4,370	3,871	499	-	27,140	510	1,605	1,172	11,774	12,079
Alcohol, Drug Abuse & Mental Hlth Admin	911	442	469	-	18,581	510	1,605	1,172	11,774	1,520
National Institutes of Health	3,459	3,429	30	-	10,559	-	-	-	-	10,559
Other agencies										
National Aeronautics & Space Admin	31,366	1,200	27,836	2,330	107	-	-	-	94	13
National Science Foundation	207,543	89,154	117,989	-	45,290	8,641	12,561	3,585	3,952	16,461

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 98 percent of total Federal basic research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-111. Federal obligations for applied research performed at universities and colleges, by detailed field of science and engineering: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Field of science and engineering	1990	Estimates	
		1991	1992
Total, all fields	2,317,357	2,658,317	2,752,496
Life sciences, total	1,464,459	1,729,065	1,772,860
Biological (excluding environmental)	681,956	780,892	838,753
Environmental biology	40,995	47,525	47,149
Agricultural	61,909	77,223	76,647
Medical	634,115	771,496	754,303
Life sciences, n.e.c.	45,484	51,929	56,008
Psychology, total	95,757	110,331	115,822
Biological aspects	36,405	42,953	46,469
Social aspects	30,071	35,958	34,625
Psychological sciences, n.e.c.	29,281	31,420	34,728
Physical sciences, total	172,647	174,187	190,562
Astronomy	4,250	4,777	5,364
Chemistry	41,413	37,591	37,479
Physics	121,749	124,711	139,156
Physical sciences, n.e.c.	5,235	7,108	8,563
Environmental sciences, total	32,808	30,480	30,871
Atmospheric	9,891	10,248	11,245
Geological	15,072	11,304	7,133
Oceanography	2,667	2,863	3,219
Environmental sciences, n.e.c.	5,178	6,065	9,274
Mathematics & computer sciences, total	121,518	129,890	132,448
Mathematics	4,302	4,545	4,882
Computer sciences	115,443	120,290	123,454
Mathematics & computer sciences, n.e.c.	1,773	5,055	4,112
Engineering, total	254,518	262,320	330,843
Aeronautical	30,808	33,185	38,663
Astronautical	11,559	11,427	18,870
Chemical	26,126	15,022	13,723
Civil	10,056	10,089	12,916
Electrical	42,935	43,355	48,249
Mechanical	15,711	15,514	17,231
Metallurgy & materials	43,703	56,504	50,142
Engineering, n.e.c.	73,620	77,224	131,049
Social sciences, total	105,242	141,835	103,512
Anthropology	325	349	360
Economics	29,917	37,263	17,875
Political science	1,828	2,299	2,378
Sociology	42,103	65,795	35,462
Social sciences, n.e.c.	31,069	36,129	37,437
Other sciences, n.e.c.	70,408	80,209	75,578

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal research obligations to universities and colleges in fiscal years 1990, 1991 and 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-112. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	2,317,357	1,464,459	95,757	172,647	32,808	121,518	254,518	105,242	70,408
Departments									
Department of Agriculture, total	182,053	134,389	-	7,721	1,001	329	10,928	27,685	-
Agricultural Cooperative Service	223	-	-	-	-	-	-	223	-
Agricultural Marketing Service 1/	79	79	-	-	-	-	-	-	-
Agricultural Research Service	13,073	12,997	-	-	-	32	44	-	-
Animal & Plant Health Inspection Svc	387	387	-	-	-	-	-	-	-
Cooperative State Research Service	157,272	112,433	-	7,721	509	-	10,884	25,725	-
Economic Research Service	1,108	-	-	-	-	-	-	1,108	-
Federal Grain Inspection Service	93	93	-	-	-	-	-	-	-
Forest Service	7,849	6,649	-	-	492	79	-	629	-
Human Nutrition Information Service	1,531	1,531	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	218	-	-	-	-	218	-	-	-
Off of Internat'l Cooperation & Dev	220	220	-	-	-	-	-	-	-
Department of Defense, total	271,501	15,232	4,928	19,678	12,548	106,115	106,460	58	6,482
Department of the Army	25,512	8,863	1,097	1,063	1,696	486	12,117	58	132
Department of the Navy	31,666	928	934	8,423	1,099	1,089	18,921	-	272
Department of the Air Force	63,050	3,441	2,897	7,123	4,635	3,477	39,477	-	-
Defense agencies	151,273	-	-	3,069	5,118	101,063	35,945	-	6,078
Department of Energy	144,501	12,971	-	75,153	8,693	-	41,923	-	5,761
Dept of Hlth & Human Services, total	1,520,963	1,288,510	90,604	15,961	-	1,968	9,997	68,595	45,328
Admin. for Children & Families 2/	2,421	-	-	-	-	-	-	2,421	-
Agency for Health Care Policy & Research 3/	20,777	-	-	-	-	-	-	20,777	-
Alcohol, Drug Abuse & Mental Hlth Admin	258,522	163,026	62,500	809	-	478	-	26,184	5,525
Centers for Disease Control	29,632	29,632	-	-	-	-	-	-	-
Food & Drug Administration	5,940	5,940	-	-	-	-	-	-	-
Health Care Financing Admin	8,369	-	-	-	-	-	-	8,369	-
Health Resources and Services Administration	6,265	6,265	-	-	-	-	-	-	-
National Institutes of Health	1,186,398	1,083,647	28,104	15,152	-	1,490	9,957	8,205	39,803
Office of the Secretary	539	-	-	-	-	-	-	539	-
Social Security Administration	2,100	-	-	-	-	-	-	2,100	-
Other agencies									
National Aeronautics & Space Admin	113,906	4,868	170	40,952	7,246	2,146	52,887	-	5,637
National Science Foundation	84,433	8,489	55	13,182	3,320	10,960	32,323	8,904	7,200

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 89 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-113. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	2,658,317	1,729,065	110,331	174,187	30,480	129,890	262,320	141,835	80,209
Departments									
Department of Agriculture, total	219,317	165,140	-	9,170	1,194	413	12,476	30,924	-
Agricultural Cooperative Service	223	-	-	-	-	-	-	223	-
Agricultural Research Service	16,400	16,305	-	-	-	40	55	-	-
Animal & Plant Health Inspection Svc	437	437	-	-	-	-	-	-	-
Cooperative State Research Service	189,815	138,798	-	9,170	560	-	12,421	28,866	-
Economic Research Service	1,031	-	-	-	-	-	-	1,031	-
Forest Service	10,053	8,515	-	-	634	100	-	804	-
Human Nutrition Information Service	860	860	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	273	-	-	-	-	273	-	-	-
Off of Internat'l Cooperation & Dev	225	225	-	-	-	-	-	-	-
Department of Defense, total	303,483	21,015	6,841	20,516	13,753	112,207	121,866	64	7,221
Department of the Army	27,813	9,964	1,211	1,446	1,528	1,364	12,040	64	196
Department of the Navy	34,679	1,016	1,023	9,225	1,203	1,193	20,721	-	298
Department of the Air Force	57,385	1,853	4,607	5,922	4,307	2,692	38,004	-	-
Defense agencies	183,606	8,182	-	3,923	6,715	106,958	51,101	-	6,727
Department of Energy	170,150	73,307	-	66,418	3,394	-	21,045	-	5,986
Dept of Hlth & Human Services, total	1,742,178	1,454,825	103,241	17,707	-	2,110	10,640	101,212	52,443
Administration for Children and Families 1/	4,047	-	-	-	-	-	-	4,047	-
Agency for Health Care Policy & Research 2/	41,891	-	-	-	-	-	-	41,891	-
Alcohol, Drug Abuse & Mental Hlth Admin	301,775	190,874	73,180	954	-	573	-	30,525	5,669
Centers for Disease Control	29,632	29,632	-	-	-	-	-	-	-
Food & Drug Administration	6,600	6,600	-	-	-	-	-	-	-
Health Care Financing Admin	10,426	-	-	-	-	-	-	10,426	-
Health Resources and Services Administration	5,650	5,650	-	-	-	-	-	-	-
National Institutes of Health	1,335,907	1,222,069	30,061	16,753	-	1,537	10,640	8,073	46,774
Office of the Secretary	4,000	-	-	-	-	-	-	4,000	-
Social Security Administration	2,250	-	-	-	-	-	-	2,250	-
Other agencies									
National Aeronautics & Space Admin	128,602	5,496	192	46,236	8,181	2,423	59,710	-	6,364
National Science Foundation	94,587	9,282	57	14,140	3,958	12,737	36,583	9,635	8,195

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-114. Federal obligations for applied research performed at universities and colleges, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	2,752,496	1,772,860	115,822	190,562	30,871	132,448	330,843	103,512	75,578
Departments									
Department of Agriculture, total	202,546	156,487	-	8,531	1,190	410	9,518	26,410	-
Agricultural Cooperative Service	223	-	-	-	-	-	-	223	-
Agricultural Research Service	16,400	16,305	-	-	-	40	55	-	-
Animal & Plant Health Inspection Svc	443	443	-	-	-	-	-	-	-
Cooperative State Research Service	172,585	129,637	-	8,531	576	-	9,463	24,378	-
Economic Research Service	1,032	-	-	-	-	-	-	1,032	-
Forest Service	9,730	8,242	-	-	614	97	-	777	-
Human Nutrition Information Service	1,620	1,620	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	273	-	-	-	-	273	-	-	-
Off of Internat'l Cooperation & Dev	240	240	-	-	-	-	-	-	-
Department of Defense, total	345,594	25,758	4,539	20,720	13,508	110,842	169,357	55	815
Department of the Army	27,662	7,885	1,055	1,123	4,057	3,208	9,783	55	496
Department of the Navy	37,066	1,086	1,093	9,860	1,286	1,275	22,147	-	319
Department of the Air Force	69,549	287	2,391	6,574	4,781	2,988	52,528	-	-
Defense agencies	211,317	16,500	-	3,163	3,384	103,371	84,899	-	-
Department of Energy	121,397	13,167	-	74,565	2,455	-	28,980	-	2,230
Dept of Hlth & Human Services, total	1,826,139	1,560,581	110,994	19,038	-	2,268	11,423	65,658	56,177
Administration for Children and Families 1/	3,964	-	-	-	-	-	-	3,964	-
Agency for Health Care Policy & Research 2/	6,967	-	-	-	-	-	-	6,967	-
Alcohol, Drug Abuse & Mental Hlth Admin	324,857	285,866	78,719	1,052	-	618	-	32,933	5,669
Centers for Disease Control	29,632	29,632	-	-	-	-	-	-	-
Food & Drug Administration	7,518	7,518	-	-	-	-	-	-	-
Health Care Financing Admin	9,576	-	-	-	-	-	-	9,576	-
Health Resources and Services Administration	5,530	5,530	-	-	-	-	-	-	-
National Institutes of Health	1,434,575	1,312,065	32,275	17,986	-	1,650	11,423	6,668	50,508
Office of the Secretary	1,000	-	-	-	-	-	-	1,000	-
Social Security Administration	2,550	-	-	-	-	-	-	2,550	-
Other agencies									
National Aeronautics & Space Admin	144,768	6,187	216	52,048	9,209	2,727	67,216	-	7,165
National Science Foundation	112,052	10,680	73	15,680	4,509	16,201	44,349	11,389	9,191

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-115. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	95,757	36,405	30,071	29,281	1,464,459	681,956	40,995	61,909	634,115	45,484
Departments										
Department of Agriculture, total	-	-	-	-	134,389	29,123	36,454	61,797	7,015	-
Agricultural Marketing Service 1/	-	-	-	-	79	-	-	79	-	-
Agricultural Research Service	-	-	-	-	12,997	4,840	211	7,946	-	-
Animal & Plant Health Inspection Svc	-	-	-	-	387	-	-	387	-	-
Cooperative State Research Service	-	-	-	-	112,433	18,802	35,075	51,541	7,015	-
Federal Grain Inspection Service	-	-	-	-	93	-	-	93	-	-
Forest Service	-	-	-	-	6,649	5,481	1,168	-	-	-
Human Nutrition Information Service	-	-	-	-	1,531	-	-	1,531	-	-
Off of Internat'l Cooperation & Dev	-	-	-	-	220	-	-	220	-	-
Department of Defense, total	4,928	143	4,785	-	15,232	187	398	-	9,566	5,081
Department of the Army	1,097	-	1,097	-	8,863	-	15	-	8,848	-
Department of the Navy	934	143	791	-	928	187	108	-	633	-
Department of the Air Force	2,897	-	2,897	-	5,441	-	275	-	85	5,081
Department of Energy	-	-	-	-	12,971	1,090	100	50	11,590	141
Dept of Hlth & Human Services, total	90,604	36,243	25,210	29,151	1,288,510	643,095	280	62	605,600	39,473
Alcohol, Drug Abuse & Mental Hlth Admin	62,500	36,243	25,210	1,047	163,026	89,344	195	62	65,474	7,951
Centers for Disease Control	-	-	-	-	29,632	-	-	-	29,632	-
Food & Drug Administration	-	-	-	-	5,940	2,614	-	-	3,326	-
Health Resources and Services Administration	-	-	-	-	6,265	-	-	-	6,265	-
National Institutes of Health	28,104	-	-	28,104	1,083,647	551,137	85	-	500,903	31,522
Other agencies										
National Aeronautics & Space Admin	170	-	40	130	4,868	3,286	465	-	344	773
National Science Foundation	55	19	36	-	8,489	5,175	3,298	-	-	16

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 89 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-116. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	110,331	42,953	35,958	31,420	1,729,065	760,892	47,525	77,223	771,496	51,929
Departments										
Department of Agriculture, total	-	-	-	-	165,140	38,454	41,165	77,108	8,413	-
Agricultural Research Service	-	-	-	-	16,305	6,060	264	9,981	-	-
Animal & Plant Health Inspection Svc	-	-	-	-	437	-	-	437	-	-
Cooperative State Research Service	-	-	-	-	130,798	25,377	39,403	65,605	8,413	-
Forest Service	-	-	-	-	8,515	7,017	1,498	-	-	-
Human Nutrition Information Service	-	-	-	-	860	-	-	860	-	-
Off of Internat'l Cooperation & Dev	-	-	-	-	225	-	-	225	-	-
Department of Defense, total	6,841	157	6,684	-	21,015	204	1,990	-	18,821	-
Department of the Army	1,211	-	1,211	-	9,964	-	19	-	9,945	-
Department of the Navy	1,023	157	866	-	1,016	204	118	-	694	-
Department of the Air Force	4,607	-	4,607	-	1,853	-	1,853	-	-	-
Defense agencies	-	-	-	-	8,182	-	-	-	8,182	-
Department of Energy	-	-	-	-	73,307	506	100	50	72,022	629
Dept of Hlth & Human Services, total	103,241	42,771	29,197	31,273	1,454,825	732,258	240	65	671,852	50,410
Alcohol, Drug Abuse & Mental Hlth Admin	73,180	42,771	29,197	1,212	190,874	103,554	200	65	77,822	9,233
Centers for Disease Control	-	-	-	-	29,632	-	-	-	29,632	-
Food & Drug Administration	-	-	-	-	6,600	2,904	-	-	3,696	-
Health Resources and Services Administration	-	-	-	-	5,650	-	-	-	5,650	-
National Institutes of Health	30,061	-	-	30,061	1,222,069	625,800	40	-	555,052	41,177
Other agencies										
National Aeronautics & Space Admin	192	-	45	147	5,496	3,710	525	-	388	873
National Science Foundation	57	25	32	-	9,282	5,760	3,505	-	-	17

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-117. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences n.e.c.
Total, all agencies	115,822	46,469	34,625	34,728	1,772,860	838,753	47,149	76,647	754,303	56,008
Departments										
Department of Agriculture, total	-	-	-	-	156,487	40,268	36,680	76,534	3,005	-
Agricultural Research Service	-	-	-	-	16,305	6,060	264	9,981	-	-
Animal & Plant Health Inspection Svc	-	-	-	-	443	-	-	443	-	-
Cooperative State Research Service	-	-	-	-	129,637	27,416	34,966	64,250	3,005	-
Forest Service	-	-	-	-	8,242	6,792	1,450	-	-	-
Human Nutrition Information Service	-	-	-	-	1,620	-	-	1,620	-	-
Off of Internat'l Cooperation & Dev	-	-	-	-	240	-	-	240	-	-
Department of Defense, total	4,539	183	4,356	-	25,758	218	5,623	-	19,917	-
Department of the Army	1,055	-	1,055	-	7,885	-	36	-	7,849	-
Department of the Navy	1,093	183	910	-	1,086	218	126	-	742	-
Department of the Air Force	2,391	-	2,391	-	287	-	191	-	96	-
Defense agencies	-	-	-	-	16,500	-	5,270	-	11,230	-
Department of Energy	-	-	-	-	13,167	401	125	50	11,617	974
Dept of Hlth & Human Services, total	110,994	46,244	30,187	34,563	1,560,581	786,915	243	63	719,327	54,033
Alcohol, Drug Abuse & Mental Hlth Admin	78,719	46,244	30,187	2,288	205,866	111,722	200	63	84,058	9,823
Centers for Disease Control	-	-	-	-	29,632	-	-	-	29,632	-
Food & Drug Administration	-	-	-	-	7,518	3,308	-	-	4,210	-
Health Resources and Services Administration	-	-	-	-	5,500	-	-	-	5,500	-
National Institutes of Health	32,275	-	-	32,277	1,312,066	671,885	43	-	595,927	44,210
Other agencies										
National Aeronautics & Space Admin	276	-	51	165	6,187	4,176	592	-	437	982
National Science Foundation	73	42	31	-	10,680	6,775	3,886	-	-	19

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-11B. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	172,647	4,250	41,413	121,749	5,235	32,808	9,891	15,072	2,667	5,178
Departments										
Department of Agriculture, total	7,721	-	7,721	-	-	1,001	759	242	-	-
Cooperative State Research Service	7,721	-	7,721	-	-	509	509	-	-	-
Forest Service	-	-	-	-	-	492	250	242	-	-
Department of Defense, total	19,678	-	4,353	14,492	833	12,548	4,897	5,911	793	947
Department of the Army	1,063	-	781	282	-	1,696	704	45	-	947
Department of the Navy	8,423	-	783	7,455	185	1,099	208	98	793	-
Department of the Air Force	7,123	-	2,789	3,943	391	4,635	3,984	651	-	-
Defense agencies	3,069	-	-	2,812	257	5,118	1	5,117	-	-
Department of Energy	75,153	-	9,451	65,250	452	8,693	172	8,215	-	306
Dept of Hlth & Human Services, total	15,961	-	14,914	1,047	-	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	809	-	809	-	-	-	-	-	-	-
National Institutes of Health	15,152	-	14,105	1,047	-	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	40,952	3,994	145	35,468	1,345	7,246	3,325	80	-	3,841
National Science Foundation	13,182	256	4,829	5,492	2,605	3,320	738	624	1,874	84

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 89 percent of total federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-119. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total[1]	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	174,187	4,777	37,591	124,711	7,108	30,480	10,248	11,304	2,863	6,065
Departments										
Department of Agriculture, total	9,170	-	9,170	-	-	1,194	882	312	-	-
Cooperative State Research Service	9,170	-	9,170	-	-	560	560	-	-	-
Forest Service	-	-	-	-	-	634	322	312	-	-
Department of Defense, total	20,516	-	3,575	16,202	739	13,753	4,496	7,438	869	950
Department of the Army	1,446	-	1,000	446	-	1,528	522	55	-	950
Department of the Navy	9,225	-	858	8,164	203	1,203	227	107	869	-
Department of the Air Force	5,922	-	1,717	3,909	296	4,307	3,747	560	-	-
Defense agencies	3,923	-	-	3,683	240	6,715	-	6,715	-	-
Department of Energy	66,418	-	2,588	61,508	2,022	1,394	220	2,496	-	678
Dept of Hlth & Human Services, total	17,787	-	16,646	1,016	45	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	954	-	954	-	-	-	-	-	-	-
National Institutes of Health	16,753	-	15,692	1,016	45	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	46,236	4,509	164	40,044	1,519	8,181	3,754	59	-	4,337
National Science Foundation	14,140	268	5,148	5,941	2,783	3,958	896	984	1,994	184

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-120. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences n.e.c.
Total, all agencies	190,562	5,364	37,479	139,156	8,563	30,871	11,245	7,133	3,219	9,274
Departments										
Department of Agriculture, total	8,531	-	8,531	-	-	1,190	888	302	-	-
Cooperative State Research Service	8,531	-	8,531	-	-	576	576	-	-	-
Forest Service	-	-	-	-	-	614	312	302	-	-
Department of Defense, total	20,720	-	3,623	16,449	648	13,508	5,179	4,184	929	3,220
Department of the Army	1,123	-	800	323	-	4,057	773	64	-	3,220
Department of the Navy	9,860	-	917	8,726	217	1,286	243	114	929	-
Department of the Air Force	6,574	-	1,906	4,339	329	4,781	4,159	622	-	-
Defense agencies	3,163	-	-	3,061	102	3,384	-	3,384	-	-
Department of Energy	74,565	-	1,438	69,996	3,131	2,455	25	1,431	-	999
Dept of Hlth & Human Services, total	19,039	-	17,900	1,091	47	-	-	-	-	-
Alcohol, Drug Abuse & Mental Hlth Admin	1,052	-	1,052	-	-	-	-	-	-	-
National Institutes of Health	17,986	-	16,848	1,091	47	-	-	-	-	-
Other agencies										
National Aeronautics & Space Admin	52,048	5,076	185	45,078	1,709	9,209	4,224	102	-	4,881
National Science Foundation	15,660	288	5,802	6,542	3,029	4,509	931	1,114	2,290	174

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-121. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	254,518	30,808	11,559	26,126	10,056	42,935	15,711	43,703	73,620
Departments									
Department of Agriculture, total	10,928	-	-	44	-	-	-	-	10,884
Agricultural Research Service	44	-	-	44	-	-	-	-	-
Cooperative State Research Service	10,884	-	-	-	-	-	-	-	10,884
Department of Defense, total	106,460	13,449	9,729	1,296	4,253	30,544	7,816	31,635	7,738
Department of the Army	12,117	796	340	554	3,104	3,510	1,233	244	2,336
Department of the Navy	18,921	473	2,969	473	880	6,766	4,028	3,207	125
Department of the Air Force	39,477	12,180	6,425	269	269	14,874	2,555	2,133	777
Defense agencies	35,945	-	-	-	-	5,394	-	26,051	4,500
Department of Energy	41,923	-	-	16,820	2,398	1,942	392	40	20,771
Dept of Hlth & Human Services, total	9,997	-	-	-	-	-	-	-	9,997
National Institutes of Health	9,997	-	-	-	-	-	-	-	9,997
Other agencies									
National Aeronautics & Space Admin	52,887	17,262	1,830	438	-	2,273	1,837	9,963	19,284
National Science Foundation	32,323	97	-	7,528	3,405	8,176	5,666	2,065	5,386

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 89 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-122. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	262,320	33,185	11,427	75,022	18,089	42,355	15,514	56,504	77,224
Departments									
Department of Agriculture, total	12,476	-	-	55	-	-	-	-	12,421
Agricultural Research Service	55	-	-	55	-	-	-	-	-
Cooperative State Research Service	12,421	-	-	-	-	-	-	-	12,421
Department of Defense, total	121,864	13,591	9,361	1,259	4,681	28,734	7,159	43,005	14,084
Department of the Army	12,040	531	29	390	3,413	2,723	1,226	374	3,354
Department of the Navy	20,721	518	3,251	518	964	7,409	4,412	3,512	137
Department of the Air Force	38,004	12,542	6,081	342	304	14,641	1,520	2,014	760
Defense agencies	51,101	-	-	-	-	4,261	-	27,105	9,835
Department of Energy	21,945	-	-	9,108	1,737	1,504	160	36	12,500
Dept of Hlth & Human Services, total	10,640	-	-	-	-	-	-	-	10,640
National Institutes of Health	10,640	-	-	-	-	-	-	-	10,640
Other agencies									
National Aeronautics & Space Admin	59,710	19,489	2,066	495	-	2,566	2,074	11,248	21,772
National Science Foundation	36,583	105	-	6,114	3,671	10,551	6,122	2,215	5,805

n.e.c. = Not elsewhere classified.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 80 percent of total Federal applied research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-123. Federal obligations for applied research performed at universities and colleges in engineering, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Engineering								
	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering n.e.c.
Total, all agencies	330,843	38,663	18,870	13,723	12,916	48,249	17,231	50,142	131,049
Departments									
Department of Agriculture, total	9,518	-	-	55	-	-	-	-	9,463
Agricultural Research Service	55	-	-	55	-	-	-	-	-
Cooperative State Research Service	9,463	-	-	-	-	-	-	-	9,463
Department of Defense, total	189,357	16,604	16,544	1,320	5,363	28,167	7,766	34,878	58,715
Department of the Army	9,783	538	25	343	3,957	2,152	1,171	465	1,132
Department of the Navy	22,147	554	3,475	554	1,030	7,919	4,715	3,754	146
Department of the Air Force	52,528	15,512	13,044	423	376	17,962	1,680	2,491	940
Defense agencies	84,899	-	-	-	-	234	-	28,168	56,497
Department of Energy	28,980	-	-	2,519	3,360	2,631	118	46	20,306
Dept of Hlth & Human Services, total	11,423	-	-	-	-	-	-	-	11,423
National Institutes of Health	11,423	-	-	-	-	-	-	-	11,423
Other agencies									
National Aeronautics & Space Admin	67,216	21,939	2,326	557	-	2,889	2,335	12,662	24,508
National Science Foundation	44,349	120	-	9,272	4,193	14,562	7,312	2,556	6,634

n.e.c. = Not elsewhere classified

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-124. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	121,518	4,302	115,443	1,773	105,242	325	29,917	1,828	42,103	31,069
Departments										
Department of Agriculture, total	329	302	27	-	27,685	-	23,029	-	4,656	-
Agricultural Cooperative Service	-	-	-	-	223	-	223	-	-	-
Agricultural Research Service	32	5	27	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	25,725	-	21,069	-	4,656	-
Economic Research Service	-	-	-	-	1,108	-	1,108	-	-	-
Forest Service	79	79	-	-	629	-	629	-	-	-
Nat'l Agricultural Statistics Svc	218	218	-	-	-	-	-	-	-	-
Department of Defense, total	106,115	845	103,720	1,550	58	-	35	-	23	-
Department of the Army	486	73	358	55	58	-	35	-	23	-
Department of the Navy	1,089	30	1,004	55	-	-	-	-	-	-
Department of the Air Force	3,477	383	3,094	-	-	-	-	-	-	-
Defense agencies	101,063	359	99,264	1,440	-	-	-	-	-	-
Dept of Hlth & Human Services, total	1,968	1,968	-	-	68,595	313	3,973	1,074	36,351	26,884
Admin. for Children & Families 1/	-	-	-	-	2,421	-	-	-	-	2,421
Agency for Health Care Policy & Research 2/	-	-	-	-	20,777	-	2,285	-	18,492	-
Alcohol, Drug Abuse & Mental Hlth Admin	478	478	-	-	26,184	313	1,209	1,074	17,799	5,789
Health Care Financing Admin	-	-	-	-	8,369	-	-	-	-	8,369
National Institutes of Health	1,490	1,490	-	-	8,205	-	-	-	-	8,205
Office of the Secretary	-	-	-	-	539	-	479	-	60	-
Social Security Administration	-	-	-	-	2,100	-	-	-	-	2,100
Other agencies										
National Aeronautics & Space Admin	2,146	45	1,878	223	-	-	-	-	-	-
National Science Foundation	10,960	1,142	9,818	-	8,904	12	2,880	754	1,073	4,185

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 89 percent of total Federal research obligations to universities and colleges in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-125. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	129,890	4,545	120,290	5,055	141,835	349	37,263	2,299	65,795	36,129
Departments										
Department of Agriculture, total	413	379	34	-	30,924	-	25,762	-	5,162	-
Agricultural Cooperative Service	-	-	-	-	223	-	223	-	-	-
Agricultural Research Service	40	6	34	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	28,866	-	23,704	-	5,162	-
Economic Research Service	-	-	-	-	1,031	-	1,031	-	-	-
Forest Service	100	100	-	-	804	-	804	-	-	-
Nat'l Agricultural Statistics Svc	273	273	-	-	-	-	-	-	-	-
Department of Defense, total	112,207	492	106,912	4,803	64	-	38	-	26	-
Department of the Army	1,364	82	1,044	238	64	-	38	-	26	-
Department of the Navy	1,193	33	1,095	61	-	-	-	-	-	-
Department of the Air Force	2,692	377	1,965	350	-	-	-	-	-	-
Defense agencies	106,958	-	102,804	4,154	-	-	-	-	-	-
Dept of Hlth & Human Services, total	2,110	2,070	40	-	101,212	337	8,324	1,474	59,461	31,616
Administration for Children and Families 1/	-	-	-	-	4,047	-	-	-	-	4,047
Agency for Health Care Policy & Research 2/	-	-	-	-	41,891	-	4,608	-	37,283	-
Alcohol, Drug Abuse & Mental Hlth Admin	573	573	-	-	30,525	337	1,316	1,274	20,778	6,820
Health Care Financing Admin	-	-	-	-	10,426	-	-	-	-	10,426
National Institutes of Health	1,537	1,497	40	-	8,073	-	-	-	-	8,073
Office of the Secretary	-	-	-	-	4,000	-	2,400	200	1,400	-
Social Security Administration	-	-	-	-	2,250	-	-	-	-	2,250
Other agencies										
National Aeronautics & Space Admin	2,423	51	2,120	252	-	-	-	-	-	-
National Science Foundation	12,737	1,553	11,184	-	9,635	12	3,139	825	1,146	4,513

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1991.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-126. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by agency and detailed field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences n.e.c.
Total, all agencies	132,448	4,882	123,454	4,112	103,512	360	27,875	2,378	35,462	37,437
Departments										
Department of Agriculture, total	410	376	34	-	26,410	-	21,238	-	5,172	-
Agricultural Cooperative Service	-	-	-	-	223	-	223	-	-	-
Agricultural Research Service	40	6	34	-	-	-	-	-	-	-
Cooperative State Research Service	-	-	-	-	24,378	-	19,206	-	5,172	-
Economic Research Service	-	-	-	-	1,032	-	1,032	-	-	-
Forest Service	97	97	-	-	777	-	777	-	-	-
Nat'l Agricultural Statistics Svc	273	273	-	-	-	-	-	-	-	-
Department of Defense, total	110,842	517	106,497	3,828	55	-	33	-	22	-
Department of the Army	3,208	63	3,007	138	55	-	33	-	22	-
Department of the Navy	1,275	36	1,174	65	-	-	-	-	-	-
Department of the Air Force	2,988	418	2,182	388	-	-	-	-	-	-
Defense agencies	103,371	-	100,134	3,237	-	-	-	-	-	-
Dept of Hlth & Human Services, total	2,268	2,225	43	-	65,658	346	2,723	1,418	28,940	32,231
Administration for Children and Families 1/	-	-	-	-	3,964	-	-	-	-	3,964
Agency for Health Care Policy & Research 2/	-	-	-	-	6,967	-	766	-	6,201	-
Alcohol, Drug Abuse & Mental Hlth Admin	618	618	-	-	32,933	346	1,357	1,368	22,389	7,473
Health Care Financing Admin	-	-	-	-	9,576	-	-	-	-	9,576
National Institutes of Health	1,650	1,607	43	-	8,668	-	-	-	-	8,668
Office of the Secretary	-	-	-	-	1,000	-	600	50	350	-
Social Security Administration	-	-	-	-	2,550	-	-	-	-	2,550
Other agencies										
National Aeronautics & Space Admin	2,727	57	2,386	284	-	-	-	-	-	-
National Science Foundation	16,201	1,707	14,494	-	11,389	14	3,881	960	1,328	5,206

n.e.c. = Not elsewhere classified

1/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

2/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

NOTE: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 91 percent of total Federal applied research obligations to universities and colleges in fiscal year 1992.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-127. Federal obligations for research and development to foreign performers, by region, country, and agency: fiscal year 1990

[Dollars in thousands]

Region and country	Total	Department of Agriculture	Department of Defense	Department of Energy	Department of Health and Human Services	Agency for Internat'l Development	National Science Foundation	Other
Total	344,654	6,040	112,343	5,286	44,081	76,684	2,262	97,958
Europe, total	93,737	3,105	55,928	822	10,071	-	2,111	21,700
Austria	61	-	51	10	-	-	-	-
Belgium	1,184	-	151	-	893	-	-	140
Denmark	574	-	33	-	541	-	-	-
Finland	1,355	-	14	-	1,341	-	-	-
France	4,073	1,212	1,718	-	591	-	108	444
Germany	22,425	-	15,311	-	62	-	-	7,052
Ireland	81	-	81	-	-	-	-	-
Italy	1,610	792	74	-	744	-	-	-
Netherlands	1,234	362	702	-	99	-	-	71
Norway	4,825	-	424	-	336	-	-	4,065
Poland	412	412	-	-	-	-	-	-
Portugal	42	-	40	-	-	-	-	2
Spain	115	-	3	-	112	-	-	-
Sweden	3,195	-	976	90	1,973	-	-	156
Switzerland	1,312	-	212	252	782	-	66	-
United Kingdom, total	50,588	10	36,060	413	2,589	-	1,937	9,579
England	46,152	-	35,765	413	658	-	147	9,169
Scotland	300	10	290	-	-	-	-	-
Bermuda	1,540	-	-	-	-	-	1,540	-
Other United Kingdom	2,596	-	5	-	1,931	-	250	410
Yugoslavia	612	317	39	57	8	-	-	191
Other Europe	39	-	39	-	-	-	-	-
Asia, total	16,650	1,462	291	-	6,397	5,406	-	3,094
Hong Kong	85	-	-	-	85	-	-	-
India	5,117	-	-	-	5,021	96	-	-
Indonesia	1,641	232	-	-	-	1,409	-	-
Japan	2,531	-	-	-	37	-	-	2,494
South Korea	433	175	258	-	-	-	-	-
Pakistan	4,015	114	-	-	-	3,901	-	-
Taiwan	1,504	904	-	-	-	-	-	600
Thailand	153	-	-	-	153	-	-	-
Other Asia	1,171	37	33	-	1,101	-	-	-
Near East, total	88,195	178	21,299	144	3,212	3,309	-	60,053
Egypt	2,478	178	-	-	-	2,300	-	-
Greece	35	-	35	-	-	-	-	-
Israel	84,673	-	21,264	144	3,212	-	-	60,053
Other Near East	1,009	-	-	-	-	1,009	-	-
Africa, total	4,658	-	612	-	45	4,001	-	-
Kenya	512	-	512	-	-	-	-	-
Other Africa	4,146	-	100	-	45	4,001	-	-
Latin America, total	3,182	1,290	48	-	931	605	32	276
Argentina	491	379	-	-	112	-	-	-
Chile	384	-	-	-	109	-	-	275
Costa Rica	56	56	-	-	-	-	-	-
Mexico	962	855	-	-	107	-	-	-
Panama	48	-	48	-	-	-	-	-
Peru	242	-	-	-	-	242	-	-
Venezuela	14	-	-	-	14	-	-	-
Other Latin America	985	-	-	-	589	363	32	1
Australia	16,956	5	13,282	302	2,307	-	-	1,060
Canada	52,914	-	19,939	4,018	17,246	-	-	11,711
New Zealand	695	-	-	-	660	-	-	35
International Organizations	67,667	-	944	-	3,212	63,363	119	29

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-128. Federal obligations for basic research to foreign performers, by region, country, and agency: fiscal year 1990

[Dollars in thousands]

Region and country	Total	Department of Agriculture	Department of Defense	Department of Health and Human Services	National Science Foundation	National Aeronautics and Space Admin	Other
Total	47,558	4,279	8,905	24,558	2,262	6,269	1,285
Europe, total	15,772	2,007	4,962	4,945	2,111	1,185	562
Austria	27	-	17	-	-	-	10
Belgium	419	-	23	396	-	-	-
Denmark	298	-	33	265	-	-	-
Finland	716	-	14	702	-	-	-
France	1,337	655	229	243	108	-	102
Germany	1,134	-	192	38	-	904	-
Ireland	81	-	81	-	-	-	-
Italy	974	428	74	472	-	-	-
Netherlands	318	195	49	74	-	-	-
Norway	492	-	299	193	-	-	-
Poland	412	412	-	-	-	-	-
Portugal	40	-	40	-	-	-	-
Spain	95	-	-	95	-	-	-
Sweden	1,118	-	42	986	-	-	90
Switzerland	376	-	130	128	66	-	52
United Kingdom, total	7,518	-	3,700	1,349	1,937	281	251
England	4,107	-	3,410	65	147	234	251
Scotland	290	-	290	-	-	-	-
Bermuda	1,540	-	-	-	1,540	-	-
Other United Kingdom	1,581	-	-	1,284	250	47	-
Yugoslavia	378	317	-	4	-	-	57
Other Europe	39	-	39	-	-	-	-
Asia, total	5,070	1,366	-	3,548	-	164	-
Hong Kong	43	-	-	43	-	-	-
India	2,836	-	-	2,836	-	-	-
Indonesia	232	232	-	-	-	-	-
Japan	182	-	-	18	-	164	-
South Korea	94	94	-	-	-	-	-
Pakistan	114	114	-	-	-	-	-
Taiwan	904	904	-	-	-	-	-
Thailand	96	-	-	96	-	-	-
Other Asia	577	22	-	555	-	-	-
Near East, total	3,753	178	1,563	1,921	-	64	27
Egypt	178	178	-	-	-	-	-
Greece	35	-	35	-	-	-	-
Israel	3,540	-	1,528	1,921	-	64	27
Africa, total	22	-	-	22	-	-	-
Other Africa	22	-	-	22	-	-	-
Latin America, total	1,677	723	-	583	32	97	242
Argentina	308	205	-	103	-	-	-
Chile	201	-	-	104	-	97	-
Costa Rica	56	56	-	-	-	-	-
Mexico	540	462	-	78	-	-	-
Peru	242	-	-	-	-	-	242
Venezuela	9	-	-	9	-	-	-
Other Latin America	321	-	-	289	32	-	-
Australia	1,906	5	153	1,181	-	125	442
Canada	17,395	-	2,227	10,535	-	4,621	12
New Zealand	358	-	-	345	-	13	-
International Organizations	1,597	-	-	1,478	119	-	-

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-129. Federal obligations for research and development to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990		Estimates			
			1991		1992	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	344,654	5,261	282,111	3,840	292,230	1,300
Departments						
Department of Agriculture, total	6,040	2,215	4,637	1,062	3,573	-
Agricultural Research Service	3,773	-	3,514	-	3,514	-
Forest Service	52	-	61	-	59	-
Office of International Cooperation and Development	2,215	2,215	1,062	1,062	-	-
Department of Commerce, total	72	-	94	-	94	-
National Institute of Standards & Technology	37	-	37	-	37	-
National Oceanic & Atmospheric Administration	35	-	57	-	57	-
Department of Defense, total	190,353	1,200	132,901	243	124,107	1,300
Department of the Army	11,588	1,200	9,615	243	10,556	1,300
Department of the Navy	78,163	-	59,168	-	43,929	-
Department of the Air Force	4,135	-	3,680	-	4,428	-
Defense agencies	78,010	-	40,136	-	65,194	-
Test & Eval, Dpty Under Secretary Def	18,457	-	20,302	-	-	-
Department of Education	190	-	-	-	-	-
Department of Energy	5,286	-	8,249	-	16,922	-
Department of Health and Human Services, total	44,081	1,806	49,179	2,535	51,933	-
Agency for Health Care Policy & Research 1/	338	-	514	-	86	-
Alcohol, Drug Abuse & Mental Health Administration	3,098	-	3,953	-	4,317	-
Health Care Financing Administration	137	-	226	-	144	-
National Institutes of Health	40,415	1,806	44,341	2,535	47,336	-
Office of the Secretary	25	-	100	-	-	-
Social Security Administration	68	-	45	-	50	-
Department of the Interior, total	527	-	688	-	1,500	-
Geological Survey	10	-	-	-	-	-
Minerals Management Service	517	-	688	-	1,500	-
Department of Labor, total	29	-	10	-	-	-
Employment and Training Administration	29	-	-	-	-	-
Office of the Secretary	-	-	10	-	-	-
Department of State	7	-	8	-	7	-
Department of Transportation, total	652	-	1,924	-	1,949	-
Federal Highway Administration	647	-	1,224	-	949	-
National Highway Traffic Safety Administration	5	-	700	-	1,000	-
Other agencies						
Agency for International Development	76,684	-	64,024	-	70,658	-
National Aeronautics and Space Administration	14,349	-	14,349	-	14,349	-
National Archives & Records Admin	40	40	-	-	-	-
National Science Foundation	2,262	-	2,456	-	2,822	-
Nuclear Regulatory Commission	4,082	-	3,592	-	4,316	-

1/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-130. Federal obligations for basic research to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990		Estimates			
			1991		1992	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	47,558	3,570	48,570	2,963	50,525	-
Departments						
Department of Agriculture, total	4,279	2,215	2,991	1,062	1,928	-
Agricultural Research Service	2,037	-	1,898	-	1,898	-
Forest Service	27	-	31	-	30	-
Office of International Cooperation and Development	2,215	2,215	1,062	1,062	-	-
Department of Defense, total	9,137	-	8,320	-	9,272	-
Department of the Army	3,206	-	2,139	-	2,686	-
Department of the Navy	4,352	-	4,915	-	5,137	-
Department of the Air Force	1,347	-	1,266	-	1,449	-
Defense agencies	232	-	-	-	-	-
Department of Energy	801	-	862	-	530	-
Department of Health and Human Services, total	24,558	1,355	27,987	1,901	30,206	-
Alcohol, Drug Abuse & Mental Health Administration	808	-	1,056	-	1,111	-
National Institutes of Health	23,750	1,355	26,931	1,901	29,095	-
Department of the Interior, total	10	-	-	-	-	-
Geological Survey	10	-	-	-	-	-
Other agencies						
Agency for International Development	242	-	252	-	285	-
National Aeronautics and Space Administration	6,269	-	5,702	-	5,482	-
National Science Foundation	2,262	-	2,456	-	2,822	-

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-131. Federal obligations for applied research to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990		Estimates			
			1991		1992	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	108,959	628	101,482	634	107,597	-
Departments						
Department of Agriculture, total	1,534	-	1,436	-	1,435	-
Agricultural Research Service	1,509	-	1,406	-	1,406	-
Forest Service	25	-	30	-	29	-
Department of Commerce, total	72	-	94	-	94	-
National Institute of Standards & Technology	37	-	37	-	37	-
National Oceanic & Atmospheric Administration	35	-	57	-	57	-
Department of Defense, total	10,888	177	11,043	-	14,569	-
Department of the Army	5,026	177	4,701	-	4,170	-
Department of the Navy	1,057	-	1,493	-	1,596	-
Department of the Air Force	1,708	-	1,554	-	1,883	-
Defense agencies	3,097	-	3,295	-	6,920	-
Department of Education	190	-	-	-	-	-
Department of Energy	188	-	262	-	135	-
Department of Health and Human Services, total	15,295	451	16,553	634	16,785	-
Agency for Health Care Policy & Research 1/	338	-	514	-	86	-
Alcohol, Drug Abuse & Mental Health Administration	2,290	-	2,897	-	3,206	-
Health Care Financing Administration	137	-	226	-	144	-
National Institutes of Health	12,437	451	12,771	634	13,299	-
Office of the Secretary	25	-	100	-	-	-
Social Security Administration	68	-	45	-	50	-
Department of the Interior, total	517	-	688	-	1,500	-
Minerals Management Service	517	-	688	-	1,500	-
Department of Labor, total	29	-	-	-	-	-
Employment and Training Administration	29	-	-	-	-	-
Department of State	7	-	8	-	7	-
Department of Transportation, total	652	-	1,924	-	1,949	-
Federal Highway Administration	647	-	1,224	-	949	-
National Highway Traffic Safety Administration	5	-	700	-	1,000	-
Other agencies						
Agency for International Development	71,457	-	61,633	-	62,331	-
National Aeronautics and Space Administration	4,048	-	4,249	-	4,476	-
Nuclear Regulatory Commission	4,082	-	3,592	-	4,316	-

1/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-132. Federal obligations for development to foreign performers and amount supported through the special foreign currency program, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990		Estimates			
			1991		1992	
	Total	Special foreign currency program	Total	Special foreign currency program	Total	Special foreign currency program
Total, all agencies	188,137	1,063	132,059	243	134,108	1,300
Departments						
Department of Agriculture, total	227	-	210	-	210	-
Agricultural Research Service	227	-	210	-	210	-
Department of Defense, total	170,328	1,023	113,538	243	100,266	1,300
Department of the Army	3,356	1,023	2,775	243	3,700	1,300
Department of the Navy	72,754	-	52,760	-	37,196	-
Department of the Air Force	1,080	-	860	-	1,096	-
Defense agencies	74,681	-	36,841	-	58,274	-
Test & Eval, Dpty Under Secretary Def	18,457	-	20,302	-	-	-
Department of Energy	4,297	-	7,125	-	16,257	-
Department of Health and Human Services, total	4,228	-	4,639	-	4,942	-
National Institutes of Health	4,228	-	4,639	-	4,942	-
Department of Labor, total	-	-	10	-	-	-
Office of the Secretary	-	-	10	-	-	-
Other agencies						
Agency for International Development	4,985	-	2,139	-	8,042	-
National Aeronautics and Space Administration	4,032	-	4,398	-	4,391	-
National Archives & Records Admin	40	40	-	-	-	-

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-133. Federal obligations for research, development, and R&D plant, by geographic division and State: fiscal year 1990

[Dollars in thousands]

Geographic division and State	Research, development and R&D plant	Research and development	R&D plant
Total	64,333,986	62,103,926	2,230,060
New England	4,193,316	4,111,005	82,311
Connecticut	511,612	509,770	1,842
Maine	40,467	39,727	740
Massachusetts	3,060,990	2,982,760	78,230
New Hampshire	145,469	145,144	325
Rhode Island	391,948	391,133	815
Vermont	42,830	42,471	359
Middle Atlantic	6,824,862	6,636,904	187,958
New Jersey	1,652,915	1,601,600	51,315
New York	3,061,345	2,960,744	100,601
Pennsylvania	2,110,602	2,074,560	36,042
East North Central	4,674,212	4,489,306	184,906
Illinois	1,073,544	957,208	116,336
Indiana	364,932	363,620	1,312
Michigan	817,354	810,799	6,555
Ohio	2,144,330	2,087,984	56,346
Wisconsin	274,052	269,695	4,357
West North Central	2,077,336	2,047,552	29,784
Iowa	197,184	186,744	10,440
Kansas	119,532	116,394	3,138
Minnesota	530,847	529,763	1,084
Missouri	1,066,213	1,064,308	1,905
Nebraska	80,582	76,445	4,137
North Dakota	64,035	56,613	7,422
South Dakota	18,943	17,285	1,658
South Atlantic	13,773,491	13,367,064	406,427
Delaware	28,321	28,294	27
District of Columbia	1,599,439	1,592,057	7,382
Florida	2,411,743	2,343,430	68,313
Georgia	367,751	364,102	3,649
Maryland	5,510,787	5,331,918	178,869
North Carolina	628,271	624,914	3,357
South Carolina	234,575	230,851	3,724
Virginia	2,863,707	2,734,959	128,748
West Virginia	128,897	116,539	12,358
East South Central	3,419,069	3,198,857	220,212
Alabama	1,915,164	1,805,418	109,746
Kentucky	97,146	96,494	652
Mississippi	519,024	471,653	47,371
Tennessee	887,735	825,292	62,443
West South Central	4,113,753	3,865,840	247,913
Arkansas	87,897	85,720	2,177
Louisiana	154,799	121,184	33,615
Oklahoma	164,132	162,639	1,493
Texas	3,706,925	3,496,297	210,628
Mountain	6,456,035	6,128,714	327,321
Arizona	594,279	591,743	2,536
Colorado	1,920,599	1,888,344	32,255
Idaho	356,394	326,071	30,323
Montana	31,479	30,933	546
Nevada	545,795	484,725	61,070
New Mexico	2,509,242	2,311,310	197,932
Utah	440,723	438,225	2,498
Wyoming	57,524	57,363	161
Pacific	18,700,022	18,172,064	527,958
Alaska	101,824	90,744	11,080
California	16,698,565	16,239,524	459,041
Hawaii	101,344	99,980	1,364
Oregon	187,881	175,584	12,297
Washington	1,610,408	1,566,232	44,176
Outlying areas	69,866	54,922	14,944
Offices abroad	32,024	31,698	326

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-134. Federal obligations for research and development, by State and performer: fiscal year 1990

[Dollars in thousands]

State (in order of total Federal R&D obligations)	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	62,103,926	15,477,597	29,288,665	2,157,689	8,944,236	3,432,838	2,029,114	611,019	162,768
California	16,239,524	2,635,494	10,066,449	23,680	1,337,493	1,721,002	266,287	171,644	17,475
Maryland	5,331,918	3,182,964	1,452,554	14,905	539,345	-	134,024	1,175	6,951
Texas	3,496,297	492,963	2,330,600	-	459,144	1,121	210,083	-	2,386
Massachusetts	2,982,760	360,459	1,168,807	-	687,298	202,869	416,710	139,732	6,885
New York	2,960,744	64,764	1,327,632	284,386	879,587	191,654	155,838	-	56,883
Virginia	2,734,959	1,024,647	1,373,296	-	157,055	17,760	33,555	122,815	5,831
Florida	2,343,430	691,833	1,457,033	-	185,399	-	5,997	-	3,168
New Mexico	2,311,310	662,682	271,265	677,909	61,479	620,880	5,351	10,073	1,671
Ohio	2,087,984	1,110,904	686,889	-	244,204	-	44,144	-	1,843
Pennsylvania	2,074,560	293,411	829,455	263,880	542,462	29,422	114,361	-	1,569
Colorado	1,888,344	309,705	1,123,611	160,134	155,778	46,200	30,007	60,849	2,060
Alabama	1,805,418	626,896	1,028,872	-	125,996	-	23,101	-	553
New Jersey	1,601,600	430,850	928,588	-	139,088	89,487	10,407	-	3,180
District of Columbia	1,592,057	1,221,129	157,270	-	68,170	-	142,939	-	2,549
Washington	1,566,232	197,125	855,558	98,013	242,400	50	64,843	104,731	3,512
Missouri	1,064,308	50,877	825,763	-	169,623	-	15,843	-	2,202
Illinois	957,208	63,948	165,462	-	326,855	349,076	47,745	-	4,122
Tennessee	825,292	234,661	158,976	256,358	134,246	26,481	13,871	-	699
Michigan	810,799	129,491	381,601	-	262,659	-	35,046	-	2,011
North Carolina	624,914	74,662	211,736	-	309,608	-	27,843	-	1,065
Arizona	591,743	116,475	322,527	-	117,307	24,413	9,828	-	1,193
Minnesota	529,763	33,528	313,574	-	139,752	-	40,583	-	2,326
Connecticut	509,770	35,690	258,997	-	196,116	-	15,110	-	3,857
Nevada	484,725	106,204	356,267	-	20,992	-	764	-	498
Mississippi	471,653	143,837	287,288	-	34,754	-	4,646	-	1,128
Utah	438,225	131,848	174,417	-	128,395	-	2,969	-	596
Rhode Island	391,133	231,006	89,203	-	49,839	-	19,959	-	1,126
Georgia	364,102	112,935	82,944	-	160,186	-	7,252	-	785
Indiana	363,620	79,623	147,827	-	132,268	-	2,745	-	1,157
Idaho	326,071	23,455	7,128	225,288	9,773	58,812	539	-	1,076
Wisconsin	269,695	30,692	40,110	-	185,917	-	11,474	-	1,502
South Carolina	230,851	18,560	8,354	153,136	42,111	-	8,238	-	452
Iowa	186,744	24,099	37,171	-	103,366	18,875	2,593	-	640
Oregon	175,584	42,002	16,964	-	91,550	-	24,152	-	916
Oklahoma	162,639	46,239	72,744	-	33,736	-	8,777	-	1,143
New Hampshire	145,144	23,626	69,317	-	51,514	-	395	-	292
Louisiana	121,184	38,403	9,792	-	67,698	-	2,312	-	2,979
West Virginia	116,539	60,082	5,110	-	20,505	28,516	1,729	-	597
Kansas	116,394	9,722	63,191	-	40,811	-	1,474	-	1,196
Hawaii	99,980	32,384	15,105	-	40,499	-	11,257	-	735
Kentucky	96,494	51,455	3,711	-	38,298	-	1,550	-	1,480
Alaska	90,744	58,515	4,174	-	24,996	-	2,080	-	979
Arkansas	85,720	52,198	11,661	-	20,089	-	1,520	-	252
Nebraska	76,445	24,276	19,896	-	26,818	-	4,831	-	624
Wyoming	57,363	8,360	17,086	-	8,527	-	21,575	-	1,815
North Dakota	56,613	22,257	9,306	-	23,782	-	753	-	515
Vermont	42,471	4,371	2,824	-	31,491	-	3,066	-	719
Maine	39,727	4,684	10,425	-	8,310	-	14,368	-	1,940
Montana	30,933	12,662	2,735	-	13,661	-	1,257	-	618
Delaware	28,294	3,943	4,205	-	17,351	-	2,239	-	556
South Dakota	17,285	6,795	2,191	-	7,368	-	709	-	222
Outlying areas	54,922	9,715	8,090	-	28,283	6,220	375	-	2,239
Offices abroad	31,698	18,491	12,914	-	293	-	-	-	-

1/ Includes cost associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy; Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-134A. Percent distribution of Federal obligations for research and development to each performer, by State: fiscal year 1990

State (in order of total Federal R&D obligations)	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
California	26.1	17.0	34.4	1.1	15.0	50.1	13.1	28.1	10.7
Maryland	8.6	20.6	5.0	.7	6.0	-	6.6	.2	4.3
Texas	5.6	3.2	8.0	-	5.1	*	10.4	-	1.5
Massachusetts	4.8	2.3	4.0	-	7.7	5.9	20.5	22.9	4.2
New York	4.8	.4	4.5	13.2	9.8	5.6	7.7	-	34.9
Virginia	4.4	6.6	4.7	-	1.8	.5	1.7	20.1	3.6
Florida	3.8	4.5	5.0	-	2.1	-	.3	-	1.9
New Mexico	3.7	4.3	.9	31.4	.7	18.1	.3	1.6	1.0
Ohio	3.4	7.2	2.3	-	2.7	-	2.2	-	1.1
Pennsylvania	3.3	1.9	2.8	12.2	6.1	.9	5.6	-	1.0
Colorado	3.0	2.0	3.8	7.4	1.7	1.3	1.5	10.0	1.3
Alabama	2.9	4.1	3.5	-	1.4	-	1.1	-	.3
New Jersey	2.6	2.8	3.2	-	1.6	2.6	.5	-	2.0
District of Columbia	2.6	7.9	.5	-	.8	-	7.0	-	1.6
Washington	2.5	1.3	2.9	4.5	2.7	*	3.2	17.1	2.2
Missouri	1.7	.3	2.8	-	1.9	-	.8	-	1.4
Illinois	1.5	.4	.6	-	3.7	10.2	2.4	-	2.5
Tennessee	1.3	1.5	.5	11.9	1.5	.8	.7	-	.4
Michigan	1.3	.8	1.3	-	2.9	-	1.7	-	1.2
North Carolina	1.0	.5	.7	-	3.5	-	1.4	-	.7
Arizona	1.0	.8	1.1	-	1.3	.7	.5	-	.7
Minnesota	.9	.2	1.1	-	1.6	-	2.0	-	1.4
Connecticut	.8	.2	.9	-	2.2	-	.7	-	2.4
Nevada	.8	.7	1.2	-	.2	-	*	-	.3
Mississippi	.8	.9	1.0	-	.4	-	.2	-	.7
Utah	.7	.9	.6	-	1.4	-	.1	-	.4
Rhode Island	.6	1.5	.3	-	.6	-	1.0	-	.7
Georgia	.6	.7	.3	-	1.8	-	.4	-	.5
Indiana	.6	.5	.5	-	1.5	-	.1	-	.7
Idaho	.5	.2	*	10.4	.1	1.7	*	-	.7
Wisconsin	.4	.2	.1	-	2.1	-	.6	-	.9
South Carolina	.4	.1	*	7.1	.5	-	.4	-	.3
Iowa	.3	.2	.1	-	1.2	.5	.1	-	.4
Oregon	.3	.3	.1	-	1.0	-	1.2	-	.6
Oklahoma	.3	.3	.2	-	.4	-	.4	-	.7
New Hampshire	.2	.2	.2	-	.6	-	*	-	.2
Louisiana	.2	.2	*	-	.8	-	.1	-	1.8
West Virginia	.2	.4	*	-	.2	.8	.1	-	.4
Kansas	.2	.1	.2	-	.5	-	.1	-	.7
Hawaii	.2	.2	.1	-	.5	-	.6	-	.5
Kentucky	.2	.3	*	-	.4	-	.1	-	.9
Alaska	.1	.4	*	-	.3	-	.1	-	.6
Arkansas	.1	.3	*	-	.2	-	.1	-	.2
Nebraska	.1	.2	.1	-	.3	-	.2	-	.4
Wyoming	.1	.1	.1	-	.1	-	1.1	-	1.1
North Dakota	.1	.1	*	-	.3	-	*	-	.3
Vermont	.1	*	*	-	.4	-	.2	-	.4
Maine	.1	*	*	-	.1	-	.7	-	1.2
Montana	*	.1	*	-	.2	-	.1	-	.4
Delaware	*	*	*	-	.2	-	.1	-	.3
South Dakota	*	*	*	-	.1	-	*	-	.1
Outlying areas	.1	.1	*	-	.3	.2	*	-	1.4
Offices abroad	.1	.1	*	-	*	-	-	-	*

* Percentage less than .05%

1/ Includes cost associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-134B. Percent distribution of Federal obligations for research and development to each State, by performer: fiscal year 1990

State (in order of total Federal R&D obligations)	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univ. and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0%	24.9%	47.2%	3.5%	14.4%	5.5%	3.3%	1.0%	0.7%
California	100.0	16.2	62.0	.1	8.2	10.6	1.6	1.1	.1
Maryland	100.0	59.7	27.2	.3	10.1	-	2.5	*	.1
Texas	100.0	14.1	66.7	-	13.1	*	6.0	-	.1
Massachusetts	100.0	12.1	39.2	-	23.0	6.8	14.0	4.7	.2
New York	100.0	2.2	44.8	9.6	29.7	6.5	5.3	-	1.9
Virginia	100.0	37.5	50.2	-	5.7	.6	1.2	4.5	.2
Florida	100.0	29.5	62.2	-	7.9	-	.3	-	.1
New Mexico	100.0	28.7	11.7	29.3	2.7	26.9	.2	.4	.1
Ohio	100.0	53.2	32.9	-	11.7	-	2.1	-	.1
Pennsylvania	100.0	14.1	40.0	12.7	26.1	1.4	5.5	-	.1
Colorado	100.0	16.4	59.5	8.5	8.2	2.4	1.6	3.2	.1
Alabama	100.0	34.7	57.0	-	7.0	-	1.3	-	*
New Jersey	100.0	26.9	58.0	-	8.7	5.6	.6	-	.2
District of Columbia	100.0	76.7	9.9	-	4.3	-	9.0	-	.2
Washington	100.0	12.6	54.6	6.3	15.5	*	4.1	6.7	.2
Missouri	100.0	4.8	77.6	-	15.9	-	1.5	-	.2
Illinois	100.0	6.7	17.3	-	34.1	36.5	5.0	-	.4
Tennessee	100.0	28.4	19.3	31.1	16.3	3.2	1.7	-	.1
Michigan	100.0	16.0	47.1	-	32.4	-	4.3	-	.2
North Carolina	100.0	11.9	33.9	-	49.5	-	4.5	-	.2
Arizona	100.0	19.7	54.5	-	19.8	4.1	1.7	-	.2
Minnesota	100.0	6.3	59.2	-	26.4	-	7.7	-	.4
Connecticut	100.0	7.0	50.8	-	38.5	-	3.0	-	.8
Nevada	100.0	21.9	73.5	-	4.3	-	.2	-	.1
Mississippi	100.0	30.5	60.9	-	7.4	-	1.0	-	.2
Utah	100.0	30.1	39.8	-	29.3	-	.7	-	.1
Rhode Island	100.0	59.1	22.8	-	12.7	-	5.1	-	.3
Georgia	100.0	31.0	22.8	-	44.0	-	2.0	-	.2
Indiana	100.0	21.9	40.7	-	36.4	-	.8	-	.3
Idaho	100.0	7.2	2.2	69.1	3.0	18.0	.2	-	.3
Wisconsin	100.0	11.4	14.9	-	68.9	-	4.3	-	.6
South Carolina	100.0	8.0	3.6	66.3	18.2	-	3.6	-	.2
Iowa	100.0	12.9	19.9	-	55.4	10.1	1.4	-	.3
Oregon	100.0	23.9	9.7	-	52.1	-	13.8	-	.5
Oklahoma	100.0	28.4	44.7	-	20.7	-	5.4	-	.7
New Hampshire	100.0	16.3	47.8	-	35.5	-	.3	-	.2
Louisiana	100.0	31.7	8.1	-	55.9	-	1.9	-	2.5
West Virginia	100.0	51.6	4.4	-	17.6	24.5	1.5	-	.5
Kansas	100.0	8.4	54.3	-	35.1	-	1.3	-	1.0
Hawaii	100.0	32.4	15.1	-	40.5	-	11.3	-	.7
Kentucky	100.0	53.3	3.8	-	39.7	-	1.6	-	1.5
Alaska	100.0	64.5	4.6	-	27.5	-	2.3	-	1.1
Arkansas	100.0	60.9	13.6	-	23.4	-	1.8	-	.3
Nebraska	100.0	31.8	26.0	-	35.1	-	6.3	-	.8
Wyoming	100.0	14.6	29.8	-	14.9	-	37.6	-	3.2
North Dakota	100.0	39.3	16.4	-	42.0	-	1.3	-	.9
Vermont	100.0	10.3	6.6	-	74.1	-	7.2	-	1.7
Maine	100.0	11.8	26.2	-	20.9	-	36.2	-	4.9
Montana	100.0	40.9	8.8	-	44.2	-	4.1	-	2.0
Delaware	100.0	13.9	14.9	-	61.3	-	7.9	-	2.0
South Dakota	100.0	39.3	12.7	-	42.6	-	4.1	-	1.3
Outlying areas	100.0	17.7	14.7	-	51.5	11.3	.7	-	4.1
Offices abroad	100.0	58.3	40.7	-	.9	-	-	-	-

* Percentage less than .05%

1/ Includes cost associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-135. Federal obligations for research and development, by State and agency: fiscal year 1990

[Dollars in thousands]

State (in order of total Federal R&D obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	62,103,926	1,102,340	438,096	37,077,795	5,625,268	8,361,560	507,982	364,983	419,726	6,518,903	1,687,273
California	16,249,328	59,808	28,345	11,620,874	1,011,694	981,917	34,405	14,647	28,054	2,160,073	309,511
Maryland	5,331,918	88,703	168,882	2,362,023	69,254	1,957,313	15,241	29,232	15,024	589,261	36,945
Texas	3,496,755	57,103	1,678	2,305,411	88,249	298,052	7,021	13,376	11,645	663,290	50,930
Massachusetts	2,982,760	28,655	18,661	1,861,884	73,166	702,500	5,137	43,638	24,922	84,280	139,717
New York	2,960,839	25,922	1,649	1,407,049	487,144	783,981	7,409	8,373	8,900	60,424	169,988
Virginia	2,733,493	8,016	2,296	2,022,016	38,386	103,274	35,672	41,724	22,839	425,993	33,277
Florida	2,343,430	26,285	19,977	1,646,802	18,499	100,048	9,304	3,422	11,509	481,365	26,219
New Mexico	2,311,310	4,692	26	1,126,424	1,089,493	26,454	5,564	143	1,732	48,608	8,174
Ohio	2,088,529	14,202	2,523	1,429,176	47,639	190,387	3,938	12,452	30,282	329,649	28,081
Pennsylvania	2,074,560	33,664	711	1,151,009	294,471	388,379	34,004	7,356	24,165	64,458	76,343
Colorado	1,888,344	24,718	48,556	1,301,294	91,700	109,042	32,299	3,152	3,009	176,269	98,305
Alabama	1,805,418	12,642	261	922,177	43,658	94,217	8,675	911	6,345	709,971	6,562
New Jersey	1,601,600	4,916	11,520	1,128,434	104,854	85,158	5,093	74,317	14,511	115,803	56,994
District of Columbia	1,592,057	126,098	31,152	847,942	68,704	149,109	29,509	37,851	14,180	239,002	48,510
Washington	1,566,982	23,381	34,005	878,914	292,185	225,915	18,951	2,853	6,227	49,433	35,118
Missouri	1,064,308	13,930	552	849,025	4,002	152,723	12,091	1,006	3,217	14,449	13,313
Illinois	957,190	32,731	1,625	191,533	400,942	204,257	5,510	7,781	4,128	19,260	89,423
Tennessee	824,964	7,673	790	364,063	302,113	112,963	4,342	283	1,594	21,766	9,377
Michigan	810,799	19,304	5,751	476,687	31,278	184,383	6,807	1,778	12,106	21,779	50,926
North Carolina	618,646	27,773	1,983	210,603	8,095	243,595	4,212	4,008	74,380	11,609	32,388
Arizona	591,743	13,354	518	424,888	4,111	59,936	12,194	670	842	25,807	49,423
Minnesota	529,763	19,407	378	301,279	4,560	140,474	14,591	3,023	19,311	6,509	20,231
Connecticut	509,770	4,513	2,502	230,562	33,753	165,841	2,992	13,167	5,932	32,732	17,776
Nevada	484,725	2,230	418	99,025	345,577	4,301	13,387	2,707	13,584	1,146	4,450
Mississippi	471,653	40,032	3,160	353,229	5,365	11,446	4,285	6,696	3,628	38,704	5,108
Utah	437,693	9,891	202	331,833	7,458	52,271	12,873	51	1,144	8,564	13,406
Rhode Island	391,133	1,263	753	324,699	3,364	33,637	2,891	774	7,078	2,821	13,853
Georgia	364,102	42,122	497	142,948	15,092	111,458	5,097	5,393	8,627	15,497	17,371
Indiana	363,620	12,166	101	218,936	18,739	63,890	3,731	753	2,069	6,627	36,608
Idaho	326,071	14,583	-	5,098	289,310	1,634	11,700	-	555	1,726	1,465
Wisconsin	271,713	28,820	1,744	27,041	15,893	118,241	8,965	979	2,190	36,530	31,310
South Carolina	230,851	12,310	353	22,314	159,721	23,557	3,689	256	1,048	962	6,641
Iowa	186,744	32,604	3,378	40,228	19,802	72,442	3,158	-	931	4,874	9,327
Oregon	175,584	26,372	1,444	18,893	8,171	68,536	19,494	414	8,837	4,567	18,856
Oklahoma	162,639	13,749	2,894	84,772	10,900	18,372	3,996	6,221	10,794	5,611	5,330
New Hampshire	145,144	3,948	1,328	88,079	1,281	28,718	2,941	220	852	11,394	6,383
Louisiana	121,184	27,450	568	14,916	2,051	51,551	9,527	1,610	3,112	3,915	6,484
West Virginia	116,585	16,592	-	1,617	41,595	13,494	8,865	1,454	1,315	471	30,962
Kansas	116,394	9,248	151	65,750	2,677	24,993	3,411	2,045	1,941	1,240	4,938
Hawaii	99,980	17,259	2,099	31,589	1,913	16,367	9,991	89	74	6,084	14,015
Kentucky	96,494	9,698	32	14,180	3,275	56,767	4,037	1,111	607	2,674	4,113
Alaska	90,744	5,648	32,975	9,992	1,207	2,458	20,333	38	100	7,660	10,333
Arkansas	85,720	9,517	-	39,116	1,125	29,513	4,211	484	186	206	1,362
Nebraska	76,445	19,423	-	27,814	772	20,579	3,529	-	372	743	3,213
Wyoming	57,363	5,101	-	1,546	35,179	1,227	6,560	5,586	70	259	3,835
North Dakota	53,061	22,322	271	154	18,034	1,625	5,638	2,428	872	62	1,655
Vermont	42,471	5,060	57	2,237	588	29,815	2,527	21	309	252	1,605
Maine	39,730	3,720	523	4,696	5,876	13,599	3,377	85	2,541	668	4,645
Montana	30,933	10,953	31	976	2,873	4,778	4,722	162	1,109	717	4,612
Delaware	28,294	3,407	447	5,757	1,351	5,865	2,776	-	691	1,962	6,038
South Dakota	15,730	4,422	93	24	-	1,836	6,628	43	-	777	1,907
Outlying areas	54,922	11,473	211	12,201	27	18,172	2,673	-	68	200	9,897
Offices abroad	31,698	3,467	25	27,866	62	-	10	-	268	-	-

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-135A. Percent distribution of Federal obligations for research and development of each agency, by State: fiscal year 1990

State (in order of total Federal R&D obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
California	26.1	5.4	6.5	31.3	18.0	11.7	6.8	4.0	6.7	33.1	18.3
Maryland	8.6	8.0	38.5	6.4	1.2	23.4	3.0	8.0	3.6	9.0	2.2
Texas	5.6	5.2	.4	6.2	1.6	3.6	1.4	3.7	2.8	10.2	3.0
Massachusetts	4.8	2.6	4.3	5.0	1.3	8.4	1.0	12.0	5.9	1.3	8.3
New York	4.8	2.4	.4	3.8	8.7	9.4	1.5	2.3	2.1	.9	10.1
Virginia	4.4	.7	.5	5.5	.7	1.2	7.0	11.4	5.4	6.5	2.0
Florida	3.8	2.4	4.6	4.4	.3	1.2	1.8	.9	2.7	7.4	1.6
New Mexico	3.7	.4	*	3.0	19.4	.3	1.1	*	.4	.7	.5
Ohio	3.4	1.3	.6	3.9	.8	2.3	.8	3.4	7.2	5.1	1.7
Pennsylvania	3.3	3.1	.2	3.1	5.2	4.6	6.7	2.0	5.8	1.0	4.5
Colorado	3.0	2.2	11.1	3.5	1.6	1.3	6.4	.9	.7	2.7	5.8
Alabama	2.9	1.1	.1	2.5	.8	1.1	1.7	.2	1.5	10.9	.4
New Jersey	2.6	.4	2.6	3.0	1.9	1.0	1.0	20.4	3.5	1.8	3.4
District of Columbia	2.6	11.4	7.1	2.3	1.2	1.8	5.8	10.4	3.4	3.7	2.9
Washington	2.5	2.1	7.8	2.4	5.2	2.7	3.7	.8	1.5	.8	2.1
Missouri	1.7	1.3	.1	2.3	.1	1.8	2.4	.3	.8	.2	.8
Illinois	1.5	3.0	.4	.5	7.1	2.4	1.1	2.1	1.0	.3	5.3
Tennessee	1.3	.7	.2	1.0	5.4	1.4	.9	.1	.4	.3	.6
Michigan	1.3	1.8	1.3	1.3	.6	2.2	1.3	.5	2.9	.3	3.0
North Carolina	1.0	2.5	.5	.6	.1	2.9	.8	1.1	17.7	.2	1.9
Arizona	1.0	1.2	.1	1.1	.1	.7	2.4	.2	.2	.4	2.9
Minnesota	.9	1.8	.1	.8	.1	1.7	2.9	.8	4.6	.1	1.2
Connecticut	.8	.4	.6	.6	.6	2.0	.6	3.6	1.4	.5	1.1
Nevada	.8	.2	.1	.3	6.1	.1	2.6	.7	3.2	*	.3
Mississippi	.8	3.6	.7	1.0	.1	.1	.8	1.8	.9	.6	.3
Utah	.7	.9	*	.9	.1	.6	2.5	*	.3	.1	.8
Rhode Island	.6	.1	.2	.9	.1	.4	.6	.2	1.7	*	.8
Georgia	.6	3.8	.1	.4	.3	1.3	1.0	1.5	2.1	.2	1.0
Indiana	.6	1.1	*	.6	.3	.8	.7	.2	.5	.1	2.2
Idaho	.5	1.3	-	*	5.1	*	2.3	-	.1	*	.1
Wisconsin	.4	2.6	.4	.1	.3	1.4	1.8	.3	.5	.6	1.9
South Carolina	.4	1.1	.1	.1	2.8	.3	.7	.1	.2	*	.4
Iowa	.3	3.0	.8	.1	.4	.9	.6	-	.2	.1	.6
Oregon	.3	2.4	.3	.1	.1	.8	3.8	.1	2.1	.1	1.1
Oklahoma	.3	1.2	.7	.2	.2	.2	.8	1.7	2.6	.1	.3
New Hampshire	.2	.4	.3	.2	*	.3	.6	.1	.2	.2	.4
Louisiana	.2	2.5	.1	*	*	.6	1.9	.4	.7	.1	.4
West Virginia	.2	1.5	-	*	.7	.2	1.7	.4	.3	*	1.8
Kansas	.2	.8	*	.2	*	.3	.7	.6	.5	*	.3
Hawaii	.2	1.6	.5	.1	*	.2	2.0	*	*	.1	.8
Kentucky	.2	.9	*	*	.1	.7	.8	.3	.1	*	.2
Alaska	.1	.5	7.5	*	*	*	4.0	*	*	.1	.6
Arkansas	.1	.9	-	.1	*	.4	.8	.1	*	*	.1
Nebraska	.1	1.8	-	.1	*	.2	.7	-	.1	*	.2
Wyoming	.1	.5	-	*	.6	*	.9	1.5	*	*	.2
North Dakota	.1	2.0	.1	*	.3	*	1.1	.7	.2	*	.1
Vermont	.1	.5	*	*	*	.4	.5	*	.1	*	.1
Maine	.1	.3	.1	*	.1	.2	.7	*	.6	*	.3
Montana	*	1.0	*	*	.1	.1	.9	*	.3	*	.3
Delaware	*	.3	.1	*	*	.1	.5	-	.2	*	.4
South Dakota	*	.4	*	*	-	*	1.3	*	-	*	.1
Outlying areas	.1	1.0	*	*	*	.2	.5	-	*	*	.6
Offices abroad	.1	.3	*	.1	*	-	*	-	.1	-	-

* Percentage less than .05%

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-135B. Percent distribution of Federal obligations for research and development of each State, by agency: fiscal year 1990

State (in order of total Federal R&D obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	100.0%	1.8%	0.7%	59.7%	9.1%	13.5%	0.8%	0.6%	0.7%	10.5%	2.7%
California	100.0	.4	.2	71.5	6.2	6.0	.2	.1	.2	13.3	1.9
Maryland	100.0	1.7	3.2	44.3	1.3	36.7	.3	.5	.3	11.1	.7
Texas	100.0	1.6	*	65.9	2.5	8.5	.2	.4	.3	19.0	1.5
Massachusetts	100.0	1.0	.6	62.4	2.5	23.6	.2	1.5	.8	2.8	4.7
New York	100.0	.9	.1	47.5	16.5	26.5	.3	.3	.3	2.0	5.7
Virginia	100.0	.3	.1	74.0	1.4	3.8	1.3	1.5	.8	15.6	1.2
Florida	100.0	1.1	.9	70.3	.8	4.3	.4	.1	.5	20.5	1.1
New Mexico	100.0	.2	*	48.7	47.1	1.1	.2	*	.1	2.1	.4
Ohio	100.0	.7	.1	68.4	2.3	9.1	.2	.6	1.5	15.8	1.3
Pennsylvania	100.0	1.6	*	55.5	14.2	18.7	1.6	.4	1.2	3.1	3.7
Colorado	100.0	1.3	2.6	68.9	4.9	5.8	1.7	.2	.2	9.3	5.2
Alabama	100.0	.7	*	51.1	2.4	5.2	.5	.1	.4	39.3	.4
New Jersey	100.0	.3	.7	70.5	6.5	5.3	.3	4.6	.9	7.2	3.6
District of Columbia	100.0	7.9	2.0	53.3	4.3	9.4	1.9	2.4	.9	15.0	3.0
Washington	100.0	1.5	2.2	56.1	18.7	14.4	1.2	.2	.4	3.2	2.2
Missouri	100.0	1.3	.1	79.8	.4	14.3	1.1	.1	.3	1.4	1.3
Illinois	100.0	3.4	.2	20.0	41.9	21.3	.6	.8	.4	2.0	9.3
Tennessee	100.0	.9	.1	44.2	36.6	13.7	.5	*	.2	2.6	1.1
Michigan	100.0	2.4	.7	58.8	3.9	22.7	.8	.2	1.5	2.7	6.3
North Carolina	100.0	4.4	.3	34.7	1.3	39.0	.7	.6	11.9	1.9	5.2
Arizona	100.0	2.3	.1	71.8	.7	10.1	2.1	.1	.1	4.4	8.4
Minnesota	100.0	3.7	.1	56.9	.9	26.5	2.8	.6	3.6	1.2	3.8
Connecticut	100.0	.9	.5	45.2	6.6	32.5	.6	2.6	1.2	6.4	3.5
Nevada	100.0	.5	.1	20.4	70.9	.9	2.8	.6	2.8	.2	.9
Mississippi	100.0	8.5	.7	74.9	1.1	2.4	.9	1.4	.8	8.2	1.1
Utah	100.0	2.3	*	75.8	1.7	11.9	2.9	*	.3	2.0	3.1
Rhode Island	100.0	.3	.2	83.0	.9	8.6	.7	.2	1.8	.7	3.5
Georgia	100.0	11.6	.1	39.3	4.1	30.6	1.4	1.5	2.4	4.3	4.8
Indiana	100.0	3.3	*	60.2	5.2	17.6	1.0	.2	.6	1.8	10.1
Idaho	100.0	4.5	-	1.6	88.7	.5	3.6	-	.2	.5	.4
Wisconsin	100.0	10.7	.6	9.3	5.9	43.8	3.3	.4	.8	13.5	11.6
South Carolina	100.0	5.3	.2	9.7	69.2	10.2	1.6	.1	.5	.4	2.9
Iowa	100.0	17.5	1.8	21.5	10.6	38.8	1.7	-	.5	2.6	5.0
Oregon	100.0	15.0	.8	10.8	4.7	39.0	11.1	.2	5.0	2.6	10.7
Oklahoma	100.0	8.5	1.8	52.1	6.7	11.3	2.5	3.8	6.6	3.4	3.3
New Hampshire	100.0	2.7	.9	60.7	.9	19.8	2.0	.2	.6	7.9	4.4
Louisiana	100.0	22.7	.5	12.3	1.7	42.5	7.9	1.3	2.6	3.2	5.4
West Virginia	100.0	14.2	-	1.5	35.7	11.6	7.6	1.2	1.1	.4	26.6
Kansas	100.0	7.9	.1	56.5	2.3	21.5	2.9	1.8	1.7	1.1	4.2
Hawaii	100.0	17.3	2.1	31.6	1.9	16.9	10.0	.1	.1	6.1	14.0
Kentucky	100.0	10.1	*	14.7	3.4	58.8	4.2	1.2	.6	2.8	4.3
Alaska	100.0	6.2	36.3	11.0	1.3	2.7	22.4	*	.1	8.4	11.4
Arkansas	100.0	11.1	-	45.6	1.3	34.4	4.9	.6	.2	.2	1.6
Nebraska	100.0	25.4	-	36.4	1.0	26.9	4.6	-	.5	1.0	4.2
Wyoming	100.0	8.9	-	2.7	61.3	2.1	7.9	9.7	.1	.5	6.7
North Dakota	100.0	39.4	.5	6.5	31.9	2.9	10.0	4.3	1.5	.1	2.9
Vermont	100.0	11.9	.1	5.3	1.4	70.2	5.9	*	.7	.6	3.8
Maine	100.0	9.4	1.3	11.8	14.8	34.2	8.5	.2	6.4	1.7	11.7
Montana	100.0	35.4	.1	3.2	9.3	15.4	15.3	.5	3.6	2.3	14.9
Delaware	100.0	12.0	1.6	20.3	4.8	20.7	9.8	-	2.4	6.9	21.3
South Dakota	100.0	25.6	.5	9.1	-	10.6	38.3	.2	-	4.5	11.0
Outlying areas	100.0	20.9	.4	22.2	*	33.1	4.9	-	.1	.4	18.0
Offices abroad	100.0	10.9	.1	87.9	.2	-	*	-	.8	-	-

* Percentage less than .05%

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total									
Total	62,103,926	15,477,597	29,288,665	2,157,689	8,944,236	3,432,838	2,029,114	611,019	162,768
Department of Agriculture	1,102,340	737,098	6,101	-	348,109	-	9,054	-	1,978
Department of Commerce	438,096	336,325	44,322	25	50,423	100	480	25	6,396
Department of Defense, research 2/	3,509,204	1,209,065	1,294,593	31,093	795,087	76,923	85,076	17,367	-
Department of Defense, development2/	33,568,591	8,429,903	23,148,790	387,838	418,325	581,529	203,432	398,759	15
Department of Energy	5,625,268	307,329	776,814	1,718,194	500,392	2,020,493	135,177	156,755	10,114
Department of Health & Human Srvs	8,361,560	1,661,699	358,113	16,435	4,874,265	28,449	1,302,370	18,424	101,805
Department of the Interior	507,982	423,717	27,594	3,741	49,880	-	253	-	2,797
Department of Transportation	364,983	199,155	98,305	-	28,608	-	5,002	17,029	16,884
Environmental Protection Agency	419,726	118,640	177,113	-	87,481	-	22,062	-	14,430
National Aeronautics and Space Admin	6,518,903	1,968,411	3,284,775	-	470,746	619,257	168,160	2,402	5,152
National Science Foundation	1,687,273	86,255	72,145	363	1,320,920	106,087	98,048	258	3,197
New England									
Total	4,111,008	659,836	1,599,573	-	1,024,571	202,869	469,608	139,732	14,819
Department of Agriculture	47,159	19,686	-	-	25,807	-	326	-	1,340
Department of Commerce	23,824	12,133	1,026	-	8,378	-	214	-	2,073
Department of Defense, research 2/	369,245	76,479	113,095	-	151,294	16,941	7,286	4,150	-
Department of Defense, development2/	2,142,913	460,063	1,294,478	-	34,594	185,928	32,268	135,582	-
Department of Energy	118,028	46	40,581	-	75,954	-	1,447	-	-
Department of Health & Human Srvs	974,110	18,048	58,442	-	511,512	-	377,621	-	8,487
Department of the Interior	19,865	17,543	-	-	2,268	-	-	-	54
Department of Transportation	58,105	47,842	8,438	-	363	-	564	-	898
Environmental Protection Agency	41,634	6,468	21,564	-	8,810	-	3,407	-	1,385
National Aeronautics and Space Admin	132,147	950	54,224	-	41,855	-	35,118	-	-
National Science Foundation	183,979	578	7,726	-	163,736	-	11,357	-	582
Connecticut									
Total	509,770	35,690	258,997	-	196,116	-	15,110	-	3,857
Department of Agriculture	4,513	1,723	-	-	1,718	-	-	-	1,072
Department of Commerce	2,502	2	4	-	2,437	-	59	-	-
Department of Defense, research 2/	32,480	12,758	13,203	-	6,305	-	214	-	-
Department of Defense, development2/	198,083	9,235	179,434	-	9,414	-	-	-	-
Department of Energy	33,753	-	23,925	-	9,828	-	-	-	-
Department of Health & Human Srvs	165,841	-	2,553	-	148,142	-	13,486	-	1,660
Department of the Interior	2,992	2,847	-	-	105	-	-	-	40
Department of Transportation	13,167	9,059	3,219	-	97	-	-	-	792
Environmental Protection Agency	5,932	-	5,270	-	369	-	-	-	293
National Aeronautics and Space Admin	32,732	66	30,374	-	1,176	-	1,116	-	-
National Science Foundation	17,776	-	1,016	-	16,525	-	235	-	-
Maine									
Total	39,730	4,684	10,425	-	8,313	-	14,368	-	1,940
Department of Agriculture	3,720	701	-	-	2,978	-	-	-	41
Department of Commerce	523	-	25	-	498	-	-	-	-
Department of Defense, research 2/	1,450	22	884	-	243	-	301	-	-
Department of Defense, development2/	3,246	940	2,306	-	-	-	-	-	-
Department of Energy	5,876	-	5,089	-	660	-	127	-	-
Department of Health & Human Srvs	13,599	-	830	-	564	-	11,325	-	880
Department of the Interior	3,377	3,021	-	-	342	-	-	-	14
Department of Transportation	85	-	-	-	32	-	-	-	53
Environmental Protection Agency	2,541	-	976	-	1,082	-	113	-	370
National Aeronautics and Space Admin	668	-	40	-	250	-	378	-	-
National Science Foundation	4,645	-	275	-	1,664	-	2,124	-	582
Massachusetts									
Total	2,982,760	360,459	1,168,807	-	687,298	202,869	416,710	139,732	6,885
Department of Agriculture	28,655	13,349	-	-	15,004	-	300	-	2
Department of Commerce	18,661	12,073	993	-	3,367	-	155	-	2,073
Department of Defense, research 2/	281,835	41,031	85,525	-	130,814	16,941	3,374	4,150	-
Department of Defense, development2/	1,580,049	232,413	969,592	-	24,266	185,928	32,268	135,582	-
Department of Energy	73,166	-	11,567	-	60,292	-	1,307	-	-
Department of Health & Human Srvs	702,500	18,048	53,736	-	292,456	-	334,122	-	4,138
Department of the Interior	5,137	4,168	-	-	969	-	-	-	-
Department of Transportation	43,838	38,181	4,876	-	217	-	564	-	-
Environmental Protection Agency	24,922	-	15,318	-	5,756	-	3,176	-	672
National Aeronautics and Space Admin	84,280	884	20,961	-	28,923	-	33,512	-	-
National Science Foundation	139,717	312	6,239	-	125,234	-	7,932	-	-
New Hampshire									
Total	145,144	23,626	69,317	-	51,514	-	395	-	292
Department of Agriculture	3,948	1,979	-	-	1,966	-	-	-	3
Department of Commerce	1,328	1	-	-	1,327	-	-	-	-
Department of Defense, research 2/	20,765	12,141	5,700	-	2,909	-	15	-	-
Department of Defense, development2/	67,314	6,315	60,704	-	295	-	-	-	-
Department of Energy	1,281	-	-	-	1,281	-	-	-	-
Department of Health & Human Srvs	28,718	-	528	-	27,714	-	195	-	281
Department of the Interior	2,941	2,716	-	-	225	-	-	-	-
Department of Transportation	220	208	12	-	-	-	-	-	-
Environmental Protection Agency	852	-	-	-	844	-	-	-	8
National Aeronautics and Space Admin	11,394	-	2,199	-	9,195	-	-	-	-
National Science Foundation	6,383	266	174	-	5,758	-	185	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Rhode Island									
Total	391,133	231,006	89,203	-	49,839	-	19,959	-	1,126
Department of Agriculture	1,263	-	-	-	1,233	-	26	-	4
Department of Commerce	753	-	4	-	749	-	-	-	-
Department of Defense, research 2/	31,838	10,527	7,094	-	10,835	-	3,382	-	-
Department of Defense, development2/	292,861	211,119	81,123	-	619	-	-	-	-
Department of Energy	3,364	46	-	-	3,305	-	13	-	-
Department of Health & Human Srvs	33,637	-	137	-	16,865	-	15,545	-	1,090
Department of the Interior	2,891	2,452	-	-	439	-	-	-	-
Department of Transportation	774	394	331	-	17	-	-	-	32
Environmental Protection Agency	7,078	6,468	-	-	610	-	-	-	-
National Aeronautics and Space Admin	2,821	-	514	-	2,195	-	112	-	-
National Science Foundation	13,853	-	-	-	12,972	-	881	-	-
Vermont									
Total	42,471	4,371	2,824	-	31,491	-	3,066	-	719
Department of Agriculture	5,060	1,934	-	-	2,908	-	-	-	218
Department of Commerce	57	57	-	-	-	-	-	-	-
Department of Defense, research 2/	877	-	689	-	188	-	-	-	-
Department of Defense, development2/	1,360	41	1,319	-	-	-	-	-	-
Department of Energy	588	-	-	-	588	-	-	-	-
Department of Health & Human Srvs	29,815	-	658	-	25,771	-	2,948	-	438
Department of the Interior	2,527	2,339	-	-	188	-	-	-	-
Department of Transportation	21	-	-	-	-	-	-	-	21
Environmental Protection Agency	309	-	-	-	149	-	118	-	42
National Aeronautics and Space Admin	252	-	136	-	116	-	-	-	-
National Science Foundation	1,605	-	22	-	1,583	-	-	-	-
Middle Atlantic									
Total	6,636,999	789,025	3,085,675	548,266	1,561,232	310,563	280,606	-	61,632
Department of Agriculture	64,502	38,616	1,590	-	23,536	-	716	-	44
Department of Commerce	13,880	10,237	193	-	3,350	100	-	-	-
Department of Defense, research 2/	444,410	88,124	170,057	13,846	156,503	9,435	6,445	-	-
Department of Defense, development2/	3,242,081	482,031	2,569,174	112,412	39,819	29,974	8,671	-	-
Department of Energy	886,469	45,151	70,643	422,008	74,253	263,697	10,717	-	-
Department of Health & Human Srvs	1,257,518	50	24,398	-	934,917	5,664	236,885	-	55,604
Department of the Interior	46,506	35,224	6,242	-	4,862	-	-	-	178
Department of Transportation	90,046	71,420	11,221	-	3,561	-	283	-	3,561
Environmental Protection Agency	47,576	8,536	23,402	-	12,210	-	1,861	-	1,567
National Aeronautics and Space Admin	240,685	9,635	187,950	-	38,221	-	4,727	-	152
National Science Foundation	303,325	-	20,806	-	269,999	1,693	10,301	-	526
New Jersey									
Total	1,601,600	430,850	928,588	-	139,088	89,487	10,407	-	3,180
Department of Agriculture	4,916	364	-	-	4,552	-	-	-	-
Department of Commerce	11,520	10,214	47	-	1,259	-	-	-	-
Department of Defense, research 2/	114,934	57,764	45,755	-	11,100	-	315	-	-
Department of Defense, development2/	1,013,500	277,186	735,798	-	516	-	-	-	-
Department of Energy	104,854	-	7,375	-	7,967	89,487	25	-	-
Department of Health & Human Srvs	85,158	-	7,738	-	67,813	-	8,744	-	863
Department of the Interior	5,093	4,731	-	-	223	-	-	-	139
Department of Transportation	74,317	71,420	1,187	-	189	-	-	-	1,521
Environmental Protection Agency	14,511	8,536	1,328	-	3,990	-	-	-	657
National Aeronautics and Space Admin	115,803	634	110,081	-	4,980	-	108	-	-
National Science Foundation	56,994	-	19,280	-	36,499	-	1,215	-	-
New York									
Total	2,960,839	64,764	1,327,632	284,386	879,682	191,654	155,838	-	56,883
Department of Agriculture	25,922	14,382	179	-	10,783	-	536	-	42
Department of Commerce	1,649	8	39	-	1,502	100	-	-	-
Department of Defense, research 2/	139,359	3,949	58,415	9,510	56,651	8,487	2,347	-	-
Department of Defense, development2/	1,267,690	21,401	1,216,846	22,132	5,240	1,500	571	-	-
Department of Energy	487,144	11,155	3,154	252,744	44,941	174,210	940	-	-
Department of Health & Human Srvs	783,981	50	12,932	-	572,088	5,664	139,424	-	53,823
Department of the Interior	7,409	5,421	-	-	1,988	-	-	-	-
Department of Transportation	8,373	-	6,614	-	25	-	-	-	1,734
Environmental Protection Agency	8,900	-	1,215	-	5,627	-	1,452	-	606
National Aeronautics and Space Admin	60,424	8,398	27,361	-	20,445	-	4,068	-	152
National Science Foundation	169,988	-	877	-	160,392	1,693	6,500	-	526
Pennsylvania									
Total	2,074,560	293,411	829,455	263,880	542,462	29,422	114,361	-	1,569
Department of Agriculture	33,664	23,870	1,411	-	8,201	-	180	-	2
Department of Commerce	711	15	107	-	589	-	-	-	-
Department of Defense, research 2/	190,117	26,411	65,887	4,336	88,752	948	3,783	-	-
Department of Defense, development2/	960,891	183,444	616,530	90,280	34,063	28,474	8,100	-	-
Department of Energy	294,471	33,996	60,114	169,264	21,345	-	9,752	-	-
Department of Health & Human Srvs	388,379	-	3,728	-	295,016	-	88,717	-	918
Department of the Interior	34,004	25,072	6,242	-	2,651	-	-	-	39
Department of Transportation	7,356	-	3,420	-	3,347	-	283	-	306
Environmental Protection Agency	24,165	-	20,859	-	2,593	-	409	-	304
National Aeronautics and Space Admin	64,458	603	50,508	-	12,796	-	551	-	-
National Science Foundation	76,343	-	649	-	73,108	-	2,586	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
East North Central									
Total	4,491,851	1,414,658	1,421,889	-	1,154,439	349,076	141,154	-	10,635
Department of Agriculture	107,223	59,873	107	-	47,196	-	22	-	25
Department of Commerce	11,744	5,542	1,518	-	4,280	-	78	-	326
Department of Defense, research 2/	305,389	113,099	98,164	-	86,718	694	6,714	-	-
Department of Defense, development2/	2,037,983	931,346	1,070,196	-	8,902	10,546	16,993	-	-
Department of Energy	514,491	16,395	81,460	-	69,334	335,796	10,015	-	1,491
Department of Health & Human Srvs	761,158	12,503	20,494	-	631,397	1,400	91,175	-	4,189
Department of the Interior	28,951	24,569	-	-	3,796	-	29	-	557
Department of Transportation	23,743	9,124	8,862	-	4,248	-	398	-	1,111
Environmental Protection Agency	50,775	22,992	13,426	-	11,188	-	900	-	2,269
National Aeronautics and Space Admin	414,045	219,214	125,949	-	61,331	50	6,976	-	525
National Science Foundation	236,348	-	1,713	-	226,049	590	7,854	-	142
Illinois									
Total	957,190	63,948	165,462	-	326,837	349,076	47,745	-	4,122
Department of Agriculture	32,731	24,068	14	-	8,649	-	-	-	-
Department of Commerce	1,625	12	39	-	1,248	-	-	-	326
Department of Defense, research 2/	53,582	14,030	9,930	-	28,453	694	475	-	-
Department of Defense, development2/	137,951	16,778	107,091	-	406	10,546	3,130	-	-
Department of Energy	400,942	832	32,443	-	21,234	335,796	9,146	-	1,491
Department of Health & Human Srvs	204,257	265	4,721	-	166,212	1,400	30,336	-	1,323
Department of the Interior	5,510	4,008	-	-	1,159	-	-	-	343
Department of Transportation	7,781	-	6,348	-	896	-	398	-	139
Environmental Protection Agency	4,128	-	660	-	2,567	-	503	-	398
National Aeronautics and Space Admin	19,260	3,955	3,845	-	11,291	50	119	-	-
National Science Foundation	89,423	-	371	-	84,722	590	3,638	-	102
Indiana									
Total	363,620	79,623	147,827	-	132,268	-	2,745	-	1,157
Department of Agriculture	12,166	3,112	-	-	9,042	-	12	-	-
Department of Commerce	101	52	-	-	49	-	-	-	-
Department of Defense, research 2/	14,146	336	7,234	-	5,969	-	607	-	-
Department of Defense, development2/	204,790	72,545	132,065	-	180	-	-	-	-
Department of Energy	18,739	-	4,368	-	14,371	-	-	-	-
Department of Health & Human Srvs	63,890	-	2,160	-	60,440	-	917	-	373
Department of the Interior	3,731	3,061	-	-	576	-	-	-	94
Department of Transportation	753	-	-	-	443	-	-	-	310
Environmental Protection Agency	2,069	-	-	-	1,607	-	82	-	380
National Aeronautics and Space Admin	6,627	517	1,719	-	3,285	-	1,106	-	-
National Science Foundation	36,608	-	281	-	36,306	-	21	-	-
Michigan									
Total	810,799	129,491	381,601	-	262,650	-	35,046	-	2,011
Department of Agriculture	19,304	5,498	3	-	13,803	-	-	-	-
Department of Commerce	5,751	4,972	2	-	777	-	-	-	-
Department of Defense, research 2/	65,791	19,202	30,451	-	14,203	-	1,935	-	-
Department of Defense, development2/	410,896	85,321	321,146	-	953	-	3,476	-	-
Department of Energy	31,278	-	18,651	-	11,848	-	779	-	-
Department of Health & Human Srvs	184,383	140	4,074	-	155,446	-	23,780	-	943
Department of the Interior	6,807	5,974	-	-	823	-	-	-	10
Department of Transportation	1,778	-	196	-	1,320	-	-	-	262
Environmental Protection Agency	12,106	6,442	1,913	-	2,955	-	-	-	796
National Aeronautics and Space Admin	21,779	1,942	4,970	-	13,884	-	983	-	-
National Science Foundation	50,926	-	195	-	46,638	-	4,093	-	-
Ohio									
Total	2,088,529	1,110,904	686,889	-	244,749	-	44,144	-	1,843
Department of Agriculture	14,202	6,038	66	-	8,078	-	10	-	10
Department of Commerce	2,523	1	1,477	-	967	-	78	-	-
Department of Defense, research 2/	162,894	79,529	49,575	-	30,093	-	3,697	-	-
Department of Defense, development2/	1,266,280	756,493	496,664	-	7,336	-	5,787	-	-
Department of Energy	47,639	15,563	25,998	-	5,988	-	90	-	-
Department of Health & Human Srvs	190,387	12,098	7,595	-	140,259	-	29,551	-	884
Department of the Interior	3,938	3,130	-	-	714	-	29	-	65
Department of Transportation	12,452	9,124	2,268	-	963	-	-	-	97
Environmental Protection Agency	30,282	16,550	9,990	-	3,165	-	315	-	262
National Aeronautics and Space Admin	329,849	212,377	92,646	-	19,808	-	4,493	-	525
National Science Foundation	28,081	-	609	-	27,378	-	94	-	-
Wisconsin									
Total	271,713	30,692	40,110	-	187,935	-	11,474	-	1,502
Department of Agriculture	28,820	21,157	24	-	7,624	-	-	-	15
Department of Commerce	1,744	505	-	-	1,239	-	-	-	-
Department of Defense, research 2/	8,976	2	974	-	8,000	-	-	-	-
Department of Defense, development2/	18,066	209	13,230	-	27	-	600	-	-
Department of Energy	15,893	-	-	-	15,893	-	-	-	-
Department of Health & Human Srvs	118,241	-	1,944	-	109,040	-	6,691	-	666
Department of the Interior	8,965	8,396	-	-	524	-	-	-	45
Department of Transportation	979	-	50	-	626	-	-	-	303
Environmental Protection Agency	2,190	-	863	-	894	-	-	-	433
National Aeronautics and Space Admin	36,530	423	22,769	-	13,063	-	275	-	-
National Science Foundation	31,310	-	257	-	31,005	-	8	-	40

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
West North Central									
Total	2,042,445	171,554	1,271,092	-	506,413	18,875	66,786	-	7,725
Department of Agriculture	121,356	73,111	7	-	48,145	-	85	-	8
Department of Commerce	4,823	561	73	-	3,918	-	-	-	271
Department of Defense, research 2/	51,869	8,547	30,726	-	11,970	156	414	-	-
Department of Defense, development2/	1,232,406	37,995	1,193,315	-	847	-	247	-	-
Department of Energy	49,847	-	10,433	-	20,695	18,719	-	-	-
Department of Health & Human Srvs	414,672	216	4,686	-	341,531	-	64,164	-	4,075
Department of the Interior	49,046	42,075	3,283	-	3,523	-	-	-	165
Department of Transportation	8,545	-	2,996	-	4,307	-	190	-	1,052
Environmental Protection Agency	26,644	8,238	10,550	-	5,702	-	-	-	2,154
National Aeronautics and Space Admin	28,654	811	14,500	-	13,108	-	235	-	-
National Science Foundation	54,584	-	510	-	52,623	-	1,451	-	-
Iowa									
Total	186,744	24,099	37,171	-	103,366	18,875	2,593	-	640
Department of Agriculture	32,604	20,254	-	-	12,350	-	-	-	-
Department of Commerce	3,378	-	-	-	3,378	-	-	-	-
Department of Defense, research 2/	3,119	-	293	-	2,600	156	70	-	-
Department of Defense, development2/	37,109	975	35,850	-	284	-	-	-	-
Department of Energy	19,802	-	-	-	1,083	18,719	-	-	-
Department of Health & Human Srvs	72,442	-	792	-	68,924	-	2,498	-	228
Department of the Interior	3,158	2,828	-	-	318	-	-	-	12
Environmental Protection Agency	931	-	-	-	531	-	-	-	400
National Aeronautics and Space Admin	4,874	42	236	-	4,575	-	21	-	-
National Science Foundation	9,327	-	-	-	9,323	-	4	-	-
Kansas									
Total	116,394	9,722	63,191	-	40,811	-	1,474	-	1,196
Department of Agriculture	9,248	3,909	-	-	5,271	-	60	-	8
Department of Commerce	151	19	-	-	132	-	-	-	-
Department of Defense, research 2/	1,874	680	138	-	1,056	-	-	-	-
Department of Defense, development2/	63,876	1,796	62,080	-	-	-	-	-	-
Department of Energy	2,677	-	173	-	2,504	-	-	-	-
Department of Health & Human Srvs	24,993	-	755	-	22,114	-	1,414	-	710
Department of the Interior	3,411	3,263	-	-	108	-	-	-	40
Department of Transportation	2,045	-	-	-	1,867	-	-	-	178
Environmental Protection Agency	1,941	-	-	-	1,681	-	-	-	260
National Aeronautics and Space Admin	1,240	55	41	-	1,144	-	-	-	-
National Science Foundation	4,938	-	4	-	4,934	-	-	-	-
Minnesota									
Total	529,763	33,528	313,574	-	139,752	-	40,583	-	2,326
Department of Agriculture	19,407	12,134	7	-	7,266	-	-	-	-
Department of Commerce	378	3	11	-	364	-	-	-	-
Department of Defense, research 2/	28,224	44	23,135	-	4,751	-	294	-	-
Department of Defense, development2/	273,056	124	272,247	-	438	-	247	-	-
Department of Energy	4,560	-	-	-	4,560	-	-	-	-
Department of Health & Human Srvs	140,474	13	2,437	-	96,485	-	39,850	-	1,689
Department of the Interior	14,591	12,789	1,243	-	549	-	-	-	10
Department of Transportation	3,023	-	2,967	-	27	-	-	-	29
Environmental Protection Agency	19,311	8,238	8,110	-	2,365	-	-	-	598
National Aeronautics and Space Admin	6,509	183	3,145	-	3,181	-	-	-	-
National Science Foundation	20,231	-	273	-	19,766	-	192	-	-
Missouri									
Total	1,064,308	50,877	825,763	-	169,623	-	15,843	-	2,202
Department of Agriculture	13,930	5,093	-	-	8,812	-	25	-	-
Department of Commerce	552	456	52	-	44	-	-	-	-
Department of Defense, research 2/	17,867	7,807	6,918	-	3,092	-	50	-	-
Department of Defense, development2/	831,158	26,972	804,061	-	125	-	-	-	-
Department of Energy	4,002	-	575	-	3,427	-	-	-	-
Department of Health & Human Srvs	152,723	-	440	-	137,225	-	14,296	-	762
Department of the Interior	12,091	10,386	110	-	1,548	-	-	-	47
Department of Transportation	1,006	-	4	-	-	-	190	-	812
Environmental Protection Agency	3,217	-	2,394	-	242	-	-	-	581
National Aeronautics and Space Admin	14,449	163	10,976	-	3,096	-	214	-	-
National Science Foundation	13,313	-	233	-	12,012	-	1,068	-	-
Nebraska									
Total	76,445	24,276	19,896	-	26,818	-	4,831	-	624
Department of Agriculture	19,423	12,944	-	-	6,479	-	-	-	-
Department of Defense, research 2/	729	16	242	-	471	-	-	-	-
Department of Defense, development2/	27,085	8,008	19,077	-	-	-	-	-	-
Department of Energy	772	-	450	-	322	-	-	-	-
Department of Health & Human Srvs	20,579	-	100	-	15,556	-	4,644	-	279
Department of the Interior	3,529	3,270	-	-	229	-	-	-	30
Environmental Protection Agency	372	-	-	-	57	-	-	-	315
National Aeronautics and Space Admin	743	38	27	-	678	-	-	-	-
National Science Foundation	3,213	-	-	-	3,026	-	187	-	-

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Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
North Dakota									
Total	53,061	22,257	9,306	-	20,230	-	753	-	515
Department of Agriculture	22,322	16,785	-	-	5,537	-	-	-	-
Department of Commerce	271	-	-	-	-	-	-	-	271
Department of Defense, research 2/	44	-	-	-	44	-	-	-	-
Department of Defense, development2/	110	110	-	-	-	-	-	-	-
Department of Energy	18,034	-	9,235	-	8,799	-	-	-	-
Department of Health & Human Srvs	1,625	-	-	-	635	-	753	-	237
Department of the Interior	5,638	5,362	-	-	269	-	-	-	7
Department of Transportation	2,428	-	25	-	2,403	-	-	-	-
Environmental Protection Agency	872	-	46	-	826	-	-	-	-
National Aeronautics and Space Admin	62	-	-	-	62	-	-	-	-
National Science Foundation	1,655	-	-	-	1,655	-	-	-	-
South Dakota									
Total	15,730	6,795	2,191	-	5,813	-	709	-	222
Department of Agriculture	4,422	1,992	-	-	2,430	-	-	-	-
Department of Commerce	93	83	10	-	-	-	-	-	-
Department of Defense, research 2/	12	-	12	-	-	-	-	-	-
Department of Defense, development2/	12	10	2	-	-	-	-	-	-
Department of Health & Human Srvs	1,836	203	162	-	592	-	709	-	170
Department of the Interior	6,628	4,177	1,930	-	502	-	-	-	19
Department of Transportation	43	-	-	-	10	-	-	-	33
National Aeronautics and Space Admin	777	330	75	-	372	-	-	-	-
National Science Foundation	1,907	-	-	-	1,907	-	-	-	-
South Atlantic									
Total	13,359,376	6,390,755	4,752,502	168,041	1,492,042	46,276	363,816	123,990	21,954
Department of Agriculture	351,306	285,410	4,078	-	59,886	-	1,797	-	135
Department of Commerce	225,587	188,910	20,948	-	14,783	-	25	-	921
Department of Defense, research 2/	1,011,356	540,689	333,787	-	98,677	281	28,407	9,515	-
Department of Defense, development2/	6,250,857	2,530,289	3,354,788	-	235,824	275	32,235	97,446	-
Department of Energy	420,737	124,611	29,013	153,136	66,379	17,204	24,794	-	5,600
Department of Health & Human Srvs	2,707,713	1,569,504	192,720	14,905	778,241	-	148,092	-	4,251
Department of the Interior	114,365	97,411	9,929	-	6,551	-	210	-	264
Department of Transportation	123,340	52,934	45,708	-	4,580	-	288	17,029	2,801
Environmental Protection Agency	149,613	39,550	76,819	-	17,639	-	13,012	-	2,593
National Aeronautics and Space Admin	1,766,122	952,722	677,414	-	60,998	-	70,779	-	4,209
National Science Foundation	238,371	8,725	7,297	-	148,483	28,516	44,170	-	1,180
Delaware									
Total	28,294	3,943	4,205	-	17,351	-	2,239	-	556
Department of Agriculture	3,407	1,339	-	-	2,068	-	-	-	-
Department of Commerce	447	-	-	-	447	-	-	-	-
Department of Defense, research 2/	2,942	2	688	-	2,252	-	-	-	-
Department of Defense, development2/	2,815	-	2,788	-	27	-	-	-	-
Department of Energy	1,351	-	106	-	1,000	-	245	-	-
Department of Health & Human Srvs	5,865	-	198	-	4,621	-	913	-	133
Department of the Interior	2,776	2,513	-	-	263	-	-	-	-
Environmental Protection Agency	691	-	-	-	268	-	-	-	423
National Aeronautics and Space Admin	1,962	89	371	-	1,052	-	450	-	-
National Science Foundation	6,038	-	54	-	5,353	-	631	-	-
Dist. of Columbia									
Total	1,592,057	1,221,129	157,270	-	68,170	-	142,939	-	2,549
Department of Agriculture	126,098	119,825	3,881	-	887	-	1,505	-	-
Department of Commerce	31,152	29,046	247	-	1,834	-	25	-	-
Department of Defense, research 2/	224,192	178,065	24,020	-	6,045	-	16,062	-	-
Department of Defense, development2/	623,750	544,203	76,867	-	868	-	1,812	-	-
Department of Energy	68,704	37,600	10,469	-	1,408	-	19,227	-	-
Department of Health & Human Srvs	149,109	55,659	5,831	-	44,506	-	42,588	-	525
Department of the Interior	29,509	27,721	1,571	-	105	-	112	-	-
Department of Transportation	37,851	28,026	9,448	-	218	-	159	-	-
Environmental Protection Agency	14,180	-	4,407	-	952	-	8,316	-	505
National Aeronautics and Space Admin	239,002	196,180	18,242	-	4,339	-	19,825	-	416
National Science Foundation	48,510	4,804	2,287	-	7,008	-	33,308	-	1,103
Florida									
Total	2,343,430	691,833	1,457,033	-	185,399	-	5,997	-	3,168
Department of Agriculture	26,285	17,194	-	-	9,091	-	-	-	-
Department of Commerce	19,977	14,450	1,178	-	3,428	-	-	-	921
Department of Defense, research 2/	102,674	36,178	45,085	-	20,651	-	759	-	-
Department of Defense, development2/	1,544,129	310,310	1,229,291	-	4,528	-	-	-	-
Department of Energy	18,499	-	-	-	17,720	-	779	-	-
Department of Health & Human Srvs	100,048	-	3,226	-	91,683	-	4,221	-	918
Department of the Interior	9,304	8,384	-	-	920	-	-	-	-
Department of Transportation	3,422	48	1,281	-	933	-	53	-	1,107
Environmental Protection Agency	11,509	6,385	2,242	-	2,729	-	-	-	153
National Aeronautics and Space Admin	481,365	298,879	174,612	-	7,809	-	65	-	-
National Science Foundation	26,219	5	118	-	25,907	-	120	-	69

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Georgia									
Total	364,102	112,935	82,944	-	160,186	-	7,252	-	785
Department of Agriculture	42,122	31,675	-	-	10,417	-	-	-	30
Department of Commerce	497	12	7	-	478	-	-	-	-
Department of Defense, research 2/	23,149	2,613	1,241	-	19,034	-	261	-	-
Department of Defense, development2/	119,799	37,598	70,918	-	11,278	-	5	-	-
Department of Energy	15,092	-	-	-	11,913	-	3,179	-	-
Department of Health & Human Srvs	111,458	25,189	940	-	82,117	-	2,929	-	283
Department of the Interior	5,097	4,400	-	-	697	-	-	-	-
Department of Transportation	5,393	4	4,640	-	547	-	-	-	202
Environmental Protection Agency	8,627	5,894	61	-	1,777	-	625	-	270
National Aeronautics and Space Admin	15,497	5,550	5,088	-	4,616	-	243	-	-
National Science Foundation	17,371	-	49	-	17,312	-	10	-	-
Maryland									
Total	5,331,918	3,182,964	1,452,554	14,905	539,345	-	134,074	1,175	6,951
Department of Agriculture	88,703	80,392	50	-	7,973	-	218	-	70
Department of Commerce	168,882	144,250	18,759	-	5,873	-	-	-	-
Department of Defense, research 2/	369,609	215,444	129,899	-	19,316	-	4,950	-	-
Department of Defense, development2/	1,992,415	928,810	826,844	-	213,563	-	22,023	1,175	-
Department of Energy	69,294	43,232	9,676	-	10,428	-	358	-	5,600
Department of Health & Human Srvs	1,957,313	1,482,058	163,458	14,905	229,709	-	66,470	-	713
Department of the Interior	15,241	14,800	19	-	407	-	-	-	15
Department of Transportation	29,232	12,511	16,160	-	281	-	38	-	242
Environmental Protection Agency	15,024	5,996	6,089	-	1,968	-	700	-	271
National Aeronautics and Space Admin	589,261	253,413	279,865	-	17,963	-	37,980	-	40
National Science Foundation	36,945	2,059	1,736	-	31,863	-	1,287	-	-
North Carolina									
Total	618,646	74,662	211,736	-	303,340	-	27,843	-	1,065
Department of Agriculture	27,773	15,250	69	-	12,454	-	-	-	-
Department of Commerce	1,983	435	36	-	1,512	-	-	-	-
Department of Defense, research 2/	42,883	11,432	10,143	-	17,621	-	3,687	-	-
Department of Defense, development2/	167,720	21,616	143,008	-	2,337	-	759	-	-
Department of Energy	8,095	468	7	-	6,993	-	627	-	-
Department of Health & Human Srvs	243,595	337	7,472	-	215,110	-	19,883	-	793
Department of the Interior	4,212	3,454	-	-	751	-	-	-	7
Department of Transportation	4,008	-	3,065	-	851	-	3	-	89
Environmental Protection Agency	74,380	21,275	45,079	-	7,053	-	805	-	168
National Aeronautics and Space Admin	11,609	395	1,996	-	7,315	-	1,903	-	-
National Science Foundation	32,388	-	861	-	31,343	-	176	-	8
South Carolina									
Total	230,851	18,560	8,354	153,136	42,111	-	8,238	-	452
Department of Agriculture	12,310	6,401	-	-	5,829	-	45	-	35
Department of Commerce	353	-	-	-	353	-	-	-	-
Department of Defense, research 2/	1,749	20	322	-	1,407	-	-	-	-
Department of Defense, development2/	20,565	6,287	5,419	-	1,481	-	7,378	-	-
Department of Energy	159,721	2,236	2,091	153,136	1,942	-	316	-	-
Department of Health & Human Srvs	23,557	25	422	-	22,352	-	490	-	268
Department of the Interior	3,689	3,412	-	-	277	-	-	-	-
Department of Transportation	256	59	12	-	44	-	-	-	141
Environmental Protection Agency	1,048	-	-	-	1,040	-	-	-	8
National Aeronautics and Space Admin	962	-	21	-	941	-	-	-	-
National Science Foundation	6,641	120	67	-	6,445	-	9	-	-
Virginia									
Total	2,733,493	1,024,647	1,373,296	-	155,589	17,760	33,555	122,815	5,831
Department of Agriculture	8,016	1,112	78	-	6,826	-	-	-	-
Department of Commerce	2,296	717	721	-	858	-	-	-	-
Department of Defense, research 2/	243,268	96,932	121,809	-	12,043	281	2,688	9,515	-
Department of Defense, development2/	1,778,737	681,463	998,754	-	1,716	275	258	96,271	-
Department of Energy	38,386	6,126	5,296	-	9,697	17,204	63	-	-
Department of Health & Human Srvs	103,274	164	9,948	-	82,919	-	9,780	-	463
Department of the Interior	35,672	25,907	8,315	-	1,252	-	98	-	100
Department of Transportation	41,724	12,286	10,200	-	1,154	-	35	17,029	1,020
Environmental Protection Agency	22,839	-	18,941	-	1,719	-	1,684	-	495
National Aeronautics and Space Admin	425,993	198,216	197,107	-	16,604	-	10,313	-	3,753
National Science Foundation	33,277	1,722	2,125	-	20,601	-	8,629	-	-
West Virginia									
Total	116,585	60,082	5,110	-	20,551	28,516	1,729	-	597
Department of Agriculture	16,592	12,222	-	-	4,341	-	29	-	-
Department of Defense, research 2/	890	2	580	-	308	-	-	-	-
Department of Defense, development2/	927	2	899	-	26	-	-	-	-
Department of Energy	41,595	34,949	1,368	-	5,278	-	-	-	-
Department of Health & Human Srvs	13,494	6,072	1,225	-	5,224	-	818	-	155
Department of the Interior	8,865	6,820	24	-	1,879	-	-	-	142
Department of Transportation	1,454	-	902	-	552	-	-	-	-
Environmental Protection Agency	1,315	-	-	-	133	-	882	-	300
National Aeronautics and Space Admin	471	-	112	-	359	-	-	-	-
National Science Foundation	30,982	15	-	-	2,451	28,516	-	-	-

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Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
East South Central									
Total	3,198,529	1,056,849	1,478,847	256,358	332,966	26,481	43,168	-	3,860
Department of Agriculture	70,045	34,365	45	-	34,790	-	845	-	-
Department of Commerce	4,243	2,621	1,045	-	529	-	48	-	-
Department of Defense, research 2/	98,061	67,075	20,132	472	7,814	373	2,195	-	-
Department of Defense, development2/	1,555,587	617,691	910,364	17,845	7,165	458	2,064	-	-
Department of Energy	354,411	5,648	62,919	236,148	24,075	24,757	864	-	-
Department of Health & Human Srvs	275,393	36,647	3,171	1,530	199,369	893	32,280	-	1,503
Department of the Interior	21,338	17,654	425	-	3,187	-	-	-	72
Department of Transportation	9,001	6,178	611	-	669	-	-	-	1,543
Environmental Protection Agency	12,174	8,759	422	-	1,870	-	389	-	734
National Aeronautics and Space Admin	773,115	259,861	479,286	-	29,731	-	4,237	-	-
National Science Foundation	25,160	349	427	363	23,767	-	246	-	8
Alabama									
Total	1,805,418	626,896	1,028,872	-	125,996	-	23,101	-	553
Department of Agriculture	12,642	3,608	-	-	9,034	-	-	-	-
Department of Commerce	261	4	-	-	209	-	48	-	-
Department of Defense, research 2/	37,488	20,877	13,086	-	2,730	-	795	-	-
Department of Defense, development2/	884,688	359,578	518,213	-	5,133	-	1,764	-	-
Department of Energy	43,658	-	40,350	-	2,455	-	853	-	-
Department of Health & Human Srvs	94,217	-	789	-	75,763	-	17,215	-	450
Department of the Interior	8,674	7,789	275	-	595	-	-	-	15
Department of Transportation	911	100	611	-	200	-	-	-	-
Environmental Protection Agency	6,345	5,163	272	-	433	-	389	-	88
National Aeronautics and Space Admin	709,971	229,776	455,274	-	22,943	-	1,978	-	-
National Science Foundation	6,562	-	2	-	6,501	-	59	-	-
Kentucky									
Total	96,494	51,455	3,711	-	38,298	-	1,550	-	1,480
Department of Agriculture	9,698	1,485	-	-	8,143	-	70	-	-
Department of Commerce	32	10	-	-	22	-	-	-	-
Department of Defense, research 2/	1,571	905	176	-	490	-	-	-	-
Department of Defense, development2/	12,609	10,600	1,706	-	303	-	-	-	-
Department of Energy	3,275	-	5	-	3,270	-	-	-	-
Department of Health & Human Srvs	56,767	33,468	1,601	-	19,892	-	1,449	-	357
Department of the Interior	4,037	3,155	-	-	882	-	-	-	-
Department of Transportation	1,111	-	-	-	259	-	-	-	852
Environmental Protection Agency	607	-	-	-	336	-	-	-	271
National Aeronautics and Space Admin	2,674	1,832	223	-	619	-	-	-	-
National Science Foundation	4,113	-	-	-	4,082	-	31	-	-
Mississippi									
Total	471,653	143,837	287,288	-	34,754	-	4,646	-	1,128
Department of Agriculture	40,032	29,014	45	-	10,198	-	775	-	-
Department of Commerce	3,160	1,842	1,045	-	273	-	-	-	-
Department of Defense, research 2/	50,130	44,397	2,387	-	1,946	-	1,400	-	-
Department of Defense, development2/	303,099	28,887	273,525	-	387	-	300	-	-
Department of Energy	5,365	-	250	-	5,115	-	-	-	-
Department of Health & Human Srvs	11,446	-	-	-	10,251	-	756	-	439
Department of the Interior	4,285	3,463	150	-	650	-	-	-	22
Department of Transportation	6,696	6,002	-	-	35	-	-	-	659
Environmental Protection Agency	3,628	3,596	-	-	32	-	-	-	-
National Aeronautics and Space Admin	38,704	26,308	9,886	-	1,251	-	1,259	-	-
National Science Foundation	5,108	328	-	-	4,616	-	156	-	8
Tennessee									
Total	824,964	234,661	158,976	256,358	133,918	25,481	13,871	-	699
Department of Agriculture	7,673	258	-	-	7,415	-	-	-	-
Department of Commerce	790	765	-	-	25	-	-	-	-
Department of Defense, research 2/	8,872	896	4,483	472	2,648	373	-	-	-
Department of Defense, development2/	355,191	218,626	116,920	17,845	1,342	458	-	-	-
Department of Energy	302,113	5,648	22,314	236,148	13,235	24,757	11	-	-
Department of Health & Human Srvs	112,963	3,179	781	1,530	93,463	893	12,860	-	257
Department of the Interior	4,342	3,247	-	-	1,060	-	-	-	35
Department of Transportation	283	76	-	-	175	-	-	-	32
Environmental Protection Agency	1,594	-	150	-	1,069	-	-	-	375
National Aeronautics and Space Admin	21,766	1,945	13,903	-	4,918	-	1,000	-	-
National Science Foundation	9,377	21	425	363	8,568	-	-	-	-
West South Central									
Total	3,866,298	629,803	2,424,797	-	581,125	1,121	222,692	-	6,760
Department of Agriculture	107,819	67,226	-	-	40,471	-	121	-	1
Department of Commerce	5,140	2,756	698	-	1,686	-	-	-	-
Department of Defense, research 2/	111,526	27,849	48,234	-	32,409	1,121	1,913	-	-
Department of Defense, development2/	2,332,690	221,052	1,989,992	-	21,604	-	100,042	-	-
Department of Energy	102,325	1,856	4,926	-	35,869	-	58,820	-	854
Department of Health & Human Srvs	397,488	21,171	4,999	-	338,467	-	31,035	-	1,816
Department of the Interior	24,755	20,511	76	-	3,746	-	-	-	422
Department of Transportation	21,691	5,946	6,514	-	6,944	-	732	-	1,535
Environmental Protection Agency	25,737	7,350	7,484	-	7,999	-	1,528	-	1,376
National Aeronautics and Space Admin	673,022	253,768	361,099	-	30,413	-	27,630	-	112
National Science Foundation	64,106	298	775	-	61,518	-	871	-	644

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[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Arkansas									
Total	85,720	52,198	11,661	-	20,089	-	1,520	-	252
Department of Agriculture	9,517	2,504	-	-	7,013	-	-	-	-
Department of Defense, research 2/	503	74	-	-	429	-	-	-	-
Department of Defense, development2/	38,613	27,882	10,731	-	-	-	-	-	-
Department of Energy	1,125	-	-	-	1,125	-	-	-	-
Department of Health & Human Srvs	29,513	18,000	538	-	9,243	-	1,520	-	212
Department of the Interior	4,211	3,738	-	-	433	-	-	-	40
Department of Transportation	484	-	379	-	105	-	-	-	-
Environmental Protection Agency	186	-	-	-	186	-	-	-	-
National Aeronautics and Space Admin	206	-	13	-	193	-	-	-	-
National Science Foundation	1,362	-	-	-	1,362	-	-	-	-
Louisiana									
Total	121,184	38,403	9,792	-	67,698	-	2,312	-	2,979
Department of Agriculture	27,450	21,449	-	-	5,879	-	121	-	1
Department of Commerce	568	1	43	-	524	-	-	-	-
Department of Defense, research 2/	4,383	1,515	526	-	2,332	-	10	-	-
Department of Defense, development2/	10,533	4,942	5,129	-	462	-	-	-	-
Department of Energy	2,051	-	-	-	2,051	-	-	-	-
Department of Health & Human Srvs	51,551	3,101	1,069	-	45,023	-	1,900	-	458
Department of the Interior	9,527	7,345	-	-	1,920	-	-	-	262
Department of Transportation	1,610	-	49	-	353	-	-	-	1,208
Environmental Protection Agency	3,112	-	-	-	2,706	-	-	-	406
National Aeronautics and Space Admin	3,915	50	2,971	-	894	-	-	-	-
National Science Foundation	6,484	-	5	-	5,554	-	281	-	644
Oklahoma									
Total	162,639	46,239	72,744	-	33,736	-	8,777	-	1,143
Department of Agriculture	13,749	8,176	-	-	5,573	-	-	-	-
Department of Commerce	2,894	2,710	-	-	184	-	-	-	-
Department of Defense, research 2/	3,563	71	892	-	2,600	-	-	-	-
Department of Defense, development2/	81,209	12,298	68,791	-	120	-	-	-	-
Department of Energy	10,900	1,741	2,123	-	6,445	-	591	-	-
Department of Health & Human Srvs	18,372	-	48	-	11,870	-	6,057	-	397
Department of the Interior	3,996	3,522	-	-	409	-	-	-	65
Department of Transportation	6,221	5,966	-	-	209	-	-	-	46
Environmental Protection Agency	10,794	7,350	444	-	892	-	1,473	-	635
National Aeronautics and Space Admin	5,611	4,405	446	-	164	-	596	-	-
National Science Foundation	5,330	-	-	-	5,270	-	60	-	-
Texas									
Total	3,496,755	492,963	2,330,600	-	459,602	1,121	210,083	-	2,386
Department of Agriculture	57,103	35,097	-	-	22,006	-	-	-	-
Department of Commerce	1,678	45	655	-	978	-	-	-	-
Department of Defense, research 2/	103,077	26,189	46,816	-	27,048	1,121	1,903	-	-
Department of Defense, development2/	2,202,335	175,930	1,905,341	-	21,022	-	100,042	-	-
Department of Energy	88,249	115	2,803	-	26,248	-	58,229	-	854
Department of Health & Human Srvs	298,052	70	3,344	-	272,331	-	21,558	-	749
Department of the Interior	7,021	5,906	76	-	984	-	-	-	55
Department of Transportation	13,376	-	6,086	-	6,277	-	732	-	281
Environmental Protection Agency	11,645	-	7,040	-	4,215	-	55	-	335
National Aeronautics and Space Admin	663,290	249,313	357,669	-	29,162	-	27,034	-	112
National Science Foundation	50,930	298	770	-	49,332	-	530	-	-
Mountain									
Total	6,128,182	1,371,391	2,275,036	1,063,331	515,380	750,305	72,290	70,922	9,527
Department of Agriculture	85,522	62,749	174	-	22,488	-	50	-	61
Department of Commerce	49,751	44,541	332	-	4,197	-	65	-	616
Department of Defense, research 2/	305,305	132,738	72,712	16,588	54,275	26,184	2,808	-	-
Department of Defense, development2/	2,985,781	997,018	1,585,604	251,355	42,008	107,068	238	2,475	15
Department of Energy	1,863,701	25,615	390,978	791,648	23,928	541,351	24,107	64,235	1,839
Department of Health & Human Srvs	259,643	1,840	5,581	-	199,674	4,933	39,177	4,097	4,341
Department of the Interior	97,299	77,829	5,725	3,741	9,297	-	14	-	693
Department of Transportation	12,471	23	8,328	-	728	-	2,547	-	845
Environmental Protection Agency	21,945	6,744	1,885	-	12,231	-	-	-	1,085
National Aeronautics and Space Admin	263,096	21,197	179,956	-	57,666	1,800	2,362	115	-
National Science Foundation	183,670	1,099	23,761	-	88,888	68,968	922	-	32
Arizona									
Total	591,743	116,475	322,527	-	117,307	24,413	9,828	-	1,193
Department of Agriculture	13,354	10,241	-	-	3,113	-	-	-	-
Department of Commerce	518	69	-	-	449	-	-	-	-
Department of Defense, research 2/	25,484	1,382	11,397	-	12,561	-	144	-	-
Department of Defense, development2/	399,404	94,193	304,034	-	1,177	-	-	-	-
Department of Energy	4,111	-	250	-	3,861	-	-	-	-
Department of Health & Human Srvs	59,936	685	484	-	49,286	-	8,972	-	509
Department of the Interior	12,194	6,001	4,658	-	1,461	-	14	-	60
Department of Transportation	670	-	277	-	18	-	-	-	375
Environmental Protection Agency	842	-	-	-	625	-	-	-	217
National Aeronautics and Space Admin	25,807	3,904	1,782	-	20,155	-	566	-	-
National Science Foundation	49,423	-	245	-	24,601	24,413	132	-	32

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Colorado									
Total	1,888,344	309,705	1,123,611	160,134	155,778	46,200	30,007	60,849	2,060
Department of Agriculture	24,718	19,713	18	-	4,937	-	50	-	-
Department of Commerce	48,556	44,472	328	-	3,691	-	65	-	-
Department of Defense, research 2/	39,676	2,754	24,023	-	10,378	-	2,521	-	-
Department of Defense, development2/	1,261,618	205,692	902,183	152,834	671	-	238	-	-
Department of Energy	91,700	1,039	19,461	7,300	7,196	-	67	56,637	-
Department of Health & Human Srvs	109,042	42	1,600	-	79,777	-	22,341	4,097	1,185
Department of the Interior	32,299	30,094	588	-	1,602	-	-	-	15
Department of Transportation	3,152	23	3	-	240	-	2,547	-	339
Environmental Protection Agency	3,009	-	525	-	1,963	-	-	-	521
National Aeronautics and Space Admin	176,269	5,279	151,905	-	15,595	1,663	1,712	115	-
National Science Foundation	98,305	597	22,977	-	29,728	44,537	466	-	-
Idaho									
Total	326,071	23,455	7,128	225,288	9,773	58,812	539	-	1,076
Department of Agriculture	14,583	11,268	-	-	3,315	-	-	-	-
Department of Defense, research 2/	1,445	702	447	20	276	-	-	-	-
Department of Defense, development2/	3,653	2,983	202	468	-	-	-	-	-
Department of Energy	289,310	2,564	6,442	221,214	151	58,812	102	-	25
Department of Health & Human Srvs	1,634	-	-	-	808	-	437	-	389
Department of the Interior	11,700	5,938	-	3,586	1,701	-	-	-	475
Environmental Protection Agency	555	-	-	-	368	-	-	-	187
National Aeronautics and Space Admin	1,726	-	-	-	1,726	-	-	-	-
National Science Foundation	1,465	-	37	-	1,428	-	-	-	-
Montana									
Total	30,933	12,662	2,735	-	13,661	-	1,257	-	618
Department of Agriculture	10,953	7,800	156	-	2,947	-	-	-	50
Department of Commerce	31	-	-	-	31	-	-	-	-
Department of Defense, research 2/	155	-	13	-	142	-	-	-	-
Department of Defense, development2/	821	575	246	-	-	-	-	-	-
Department of Energy	2,873	320	1,794	-	684	-	-	-	75
Department of Health & Human Srvs	4,778	-	191	-	2,939	-	1,257	-	391
Department of the Interior	4,722	3,967	-	-	690	-	-	-	65
Department of Transportation	162	-	-	-	162	-	-	-	-
Environmental Protection Agency	1,109	-	-	-	1,072	-	-	-	37
National Aeronautics and Space Admin	717	-	288	-	429	-	-	-	-
National Science Foundation	4,612	-	47	-	4,565	-	-	-	-
Nevada									
Total	484,725	106,204	356,267	-	20,992	-	764	-	498
Department of Agriculture	2,230	775	-	-	1,455	-	-	-	-
Department of Commerce	418	-	-	-	-	-	-	-	418
Department of Defense, research 2/	86,754	80,293	6,144	-	317	-	-	-	-
Department of Defense, development2/	12,272	3,285	8,987	-	-	-	-	-	-
Department of Energy	343,577	2,688	337,763	-	3,116	-	10	-	-
Department of Health & Human Srvs	4,301	-	-	-	3,478	-	754	-	69
Department of the Interior	13,387	12,100	174	-	1,103	-	-	-	10
Department of Transportation	2,707	-	2,643	-	64	-	-	-	-
Environmental Protection Agency	13,484	6,744	-	-	6,739	-	-	-	1
National Aeronautics and Space Admin	1,146	320	556	-	270	-	-	-	-
National Science Foundation	4,450	-	-	-	4,450	-	-	-	-
New Mexico									
Total	2,311,310	662,682	271,265	677,909	61,479	620,880	5,351	10,073	1,671
Department of Agriculture	4,692	2,309	-	-	2,383	-	-	-	-
Department of Commerce	26	-	-	-	26	-	-	-	-
Department of Defense, research 2/	128,050	46,835	27,130	16,568	11,190	26,184	143	-	-
Department of Defense, development2/	998,376	576,269	209,279	98,053	5,217	107,068	-	2,475	15
Department of Energy	1,089,493	19,004	13,497	563,134	3,177	482,539	544	7,598	-
Department of Health & Human Srvs	26,454	1,113	496	-	14,121	4,933	4,256	-	1,535
Department of the Interior	5,564	5,089	-	155	294	-	-	-	26
Department of Transportation	143	-	40	-	23	-	-	-	80
Environmental Protection Agency	1,732	-	1,360	-	357	-	-	-	15
National Aeronautics and Space Admin	48,608	11,563	19,289	-	17,535	137	84	-	-
National Science Foundation	8,174	502	174	-	7,156	18	324	-	-
Utah									
Total	437,693	131,848	174,417	-	127,863	-	2,969	-	596
Department of Agriculture	9,891	7,167	-	-	2,713	-	-	-	11
Department of Commerce	202	-	4	-	-	-	-	-	198
Department of Defense, research 2/	22,961	764	3,558	-	18,639	-	-	-	-
Department of Defense, development2/	308,871	113,255	160,673	-	34,943	-	-	-	-
Department of Energy	7,458	-	50	-	5,479	-	1,929	-	-
Department of Health & Human Srvs	52,271	-	2,810	-	48,219	-	1,040	-	202
Department of the Interior	12,873	10,530	305	-	2,011	-	-	-	27
Department of Transportation	51	-	-	-	-	-	-	-	51
Environmental Protection Agency	1,144	-	-	-	1,037	-	-	-	107
National Aeronautics and Space Admin	8,564	131	6,736	-	1,697	-	-	-	-
National Science Foundation	13,406	-	281	-	13,125	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Wyoming									
Total	57,363	8,360	17,086	-	8,527	-	21,575	-	1,815
Department of Agriculture	5,101	3,476	-	-	1,625	-	-	-	-
Department of Defense, research 2/	780	8	-	-	772	-	-	-	-
Department of Defense, development2/	766	766	-	-	-	-	-	-	-
Department of Energy	35,179	-	11,721	-	264	-	21,455	-	1,739
Department of Health & Human Srvs	1,227	-	-	-	1,046	-	120	-	61
Department of the Interior	4,560	4,110	-	-	435	-	-	-	15
Department of Transportation	5,586	-	5,365	-	221	-	-	-	-
Environmental Protection Agency	70	-	-	-	70	-	-	-	-
National Aeronautics and Space Admin	259	-	-	-	259	-	-	-	-
National Science Foundation	3,835	-	-	-	3,835	-	-	-	-
Pacific									
Total	18,182,618	2,965,520	10,958,250	121,693	1,747,492	1,721,052	368,619	276,375	23,617
Department of Agriculture	132,468	88,574	100	-	38,338	-	5,092	-	364
Department of Commerce	98,868	69,024	18,489	25	9,066	-	50	25	2,189
Department of Defense, research 2/	807,326	152,500	405,822	187	194,490	21,738	28,887	3,702	-
Department of Defense, development2/	11,752,935	2,136,022	9,161,916	6,226	27,563	247,280	10,673	163,255	-
Department of Energy	1,315,170	88,007	85,799	115,254	109,878	818,969	4,413	92,520	330
Department of Health & Human Srvs	1,295,693	1,720	43,505	-	923,713	15,559	281,566	14,327	15,303
Department of the Interior	103,174	88,543	1,904	-	12,335	-	-	-	392
Department of Transportation	18,041	5,668	5,627	-	3,208	-	-	-	3,538
Environmental Protection Agency	43,292	10,003	21,561	-	9,499	-	965	-	1,264
National Aeronautics and Space Admin	2,227,817	250,253	1,204,397	-	137,223	617,407	16,096	2,287	154
National Science Foundation	387,833	75,206	9,130	-	282,180	100	20,876	258	83
Alaska									
Total	90,744	58,515	4,174	-	24,996	-	2,080	-	979
Department of Agriculture	5,648	4,333	-	-	1,315	-	-	-	-
Department of Commerce	32,975	30,756	13	-	1,714	-	-	-	492
Department of Defense, research 2/	230	-	60	-	170	-	-	-	-
Department of Defense, development2/	9,762	4,556	3,946	-	1,260	-	-	-	-
Department of Energy	1,207	-	25	-	1,092	-	-	-	90
Department of Health & Human Srvs	2,458	358	50	-	436	-	1,270	-	344
Department of the Interior	20,333	18,512	80	-	1,726	-	-	-	15
Department of Transportation	38	-	-	-	-	-	-	-	38
Environmental Protection Agency	100	-	-	-	100	-	-	-	-
National Aeronautics and Space Admin	7,660	-	-	-	7,660	-	-	-	-
National Science Foundation	10,333	-	-	-	9,523	-	810	-	-
California									
Total	16,249,328	2,635,494	10,066,449	23,680	1,347,297	1,721,002	266,287	171,644	17,475
Department of Agriculture	59,808	44,393	82	-	15,263	-	70	-	-
Department of Commerce	28,345	7,922	16,641	-	3,131	-	50	-	601
Department of Defense, research 2/	751,546	150,036	381,939	187	167,356	21,688	27,579	2,761	-
Department of Defense, development2/	10,869,328	2,074,199	8,358,867	5,371	10,971	247,280	9,981	162,659	-
Department of Energy	1,011,694	1,871	78,050	18,121	92,751	818,969	1,611	321	-
Department of Health & Human Srvs	981,917	400	36,831	-	719,335	15,559	193,683	3,484	12,625
Department of the Interior	34,405	28,380	1,072	-	4,693	-	-	-	260
Department of Transportation	14,647	5,650	3,597	-	2,423	-	-	-	2,977
Environmental Protection Agency	28,054	-	20,673	-	5,981	-	625	-	775
National Aeronautics and Space Admin	2,160,073	248,883	1,161,194	-	114,399	617,407	15,792	2,244	154
National Science Foundation	309,511	73,760	7,504	-	210,994	100	16,896	174	83
Hawaii									
Total	99,980	32,384	15,105	-	40,499	-	11,257	-	735
Department of Agriculture	17,259	8,019	-	-	4,218	-	5,022	-	-
Department of Commerce	2,099	968	186	-	945	-	-	-	-
Department of Defense, research 2/	3,650	69	399	-	3,182	-	-	-	-
Department of Defense, development2/	27,939	13,287	14,070	-	582	-	-	-	-
Department of Energy	1,913	-	-	-	1,784	-	129	-	-
Department of Health & Human Srvs	16,867	-	231	-	11,107	-	4,925	-	604
Department of the Interior	9,991	8,594	-	-	1,397	-	-	-	-
Department of Transportation	89	-	-	-	32	-	-	-	57
Environmental Protection Agency	74	-	-	-	-	-	-	-	74
National Aeronautics and Space Admin	6,084	90	219	-	5,775	-	-	-	-
National Science Foundation	14,015	1,357	-	-	11,477	-	1,181	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-136. Federal obligations for research and development, by geographic division, State, agency, and performer: fiscal year 1990

[Dollars in thousands]

Geographic division, State, and agency	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Oregon									
Total	175,584	42,002	16,964	-	91,550	-	24,152	-	916
Department of Agriculture	26,372	17,111	7	-	8,967	-	-	-	287
Department of Commerce	1,444	225	-	-	1,219	-	-	-	-
Department of Defense, research 2/	13,283	32	5,550	-	7,445	-	256	-	-
Department of Defense, development2/	5,610	423	4,728	-	459	-	-	-	-
Department of Energy	8,171	902	2,333	-	4,771	-	-	-	165
Department of Health & Human Srvs	68,536	15	1,373	-	43,347	-	23,468	-	333
Department of the Interior	19,494	15,954	344	-	3,166	-	-	-	30
Department of Transportation	414	-	9	-	304	-	-	-	101
Environmental Protection Agency	8,837	7,335	-	-	1,502	-	-	-	-
National Aeronautics and Space Admin	4,567	5	2,010	-	2,251	-	301	-	-
National Science Foundation	18,856	-	609	-	18,120	-	127	-	-
Washington									
Total	1,566,982	197,125	855,558	98,013	243,150	50	64,843	104,731	3,512
Department of Agriculture	23,381	14,718	11	-	8,575	-	-	-	77
Department of Commerce	34,005	29,153	1,649	25	2,057	-	-	25	1,096
Department of Defense, research 2/	38,617	2,363	17,874	-	16,337	50	1,052	941	-
Department of Defense, development2/	840,296	43,557	780,305	855	14,291	-	692	596	-
Department of Energy	292,185	85,234	5,391	97,133	9,480	-	2,673	92,199	75
Department of Health & Human Srvs	225,915	947	5,020	-	149,488	-	58,220	10,843	1,397
Department of the Interior	18,951	17,103	408	-	1,353	-	-	-	87
Department of Transportation	2,853	18	2,021	-	449	-	-	-	365
Environmental Protection Agency	6,227	2,668	888	-	1,916	-	340	-	415
National Aeronautics and Space Admin	49,433	1,275	40,974	-	7,138	-	3	43	-
National Science Foundation	35,118	89	1,017	-	32,066	-	1,862	84	-
Outlying areas									
Total	54,922	9,715	8,090	-	28,283	6,220	375	-	2,239
Department of Agriculture	11,473	4,021	-	-	7,452	-	-	-	-
Department of Commerce	211	-	-	-	211	-	-	-	-
Department of Defense, research 2/	892	-	-	-	892	-	-	-	-
Department of Defense, development2/	11,309	3,336	7,973	-	-	-	-	-	-
Department of Energy	27	-	-	-	27	-	-	-	-
Department of Health & Human Srvs	18,172	-	117	-	15,444	-	375	-	2,236
Department of the Interior	2,673	2,358	-	-	315	-	-	-	-
Environmental Protection Agency	68	-	-	-	65	-	-	-	3
National Aeronautics and Space Admin	200	-	-	-	200	-	-	-	-
National Science Foundation	9,897	-	-	-	3,677	6,220	-	-	-
Offices abroad									
Total	31,698	18,491	12,914	-	293	-	-	-	-
Department of Agriculture	3,467	3,467	-	-	-	-	-	-	-
Department of Commerce	25	-	-	-	25	-	-	-	-
Department of Defense, research 2/	3,820	1,965	1,855	-	-	-	-	-	-
Department of Defense, development2/	24,046	13,059	10,987	-	-	-	-	-	-
Department of Energy	62	-	62	-	-	-	-	-	-
Department of the Interior	10	-	10	-	-	-	-	-	-
Environmental Protection Agency	268	-	-	-	268	-	-	-	-

1/ Includes cost associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

2/ In this volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

FFRDCs = Federally Funded Research and Development Centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-137. Federal obligations for R&D plant, by geographic division, State, and category of performer supported: fiscal year 1990

[Dollars in thousands]

Geographic division and State	Total	Intramural 1/	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	2,230,060	345,862	882,926	231,009	129,585	495,791	112,976	31,385	526
New England	82,311	14,175	7,243	-	17,970	21,962	100	20,350	511
Connecticut	1,842	145	-	-	1,297	-	-	-	400
Maine	740	14	500	-	115	-	-	-	111
Massachusetts	78,230	13,742	6,674	-	15,402	21,962	100	20,350	-
New Hampshire	325	256	69	-	-	-	-	-	-
Rhode Island	815	18	-	-	797	-	-	-	-
Vermont	359	-	-	-	359	-	-	-	-
Middle Atlantic	187,958	39,680	31,141	59,964	14,610	42,360	203	-	-
New Jersey	51,315	34,894	9,733	-	3,734	2,954	-	-	-
New York	100,601	3,358	11,840	39,275	6,519	39,406	203	-	-
Pennsylvania	36,042	1,428	9,568	20,689	4,357	-	-	-	-
East North Central	184,906	8,368	53,294	-	13,953	109,291	-	-	-
Illinois	116,336	1,626	-	-	5,419	109,291	-	-	-
Indiana	1,312	23	-	-	1,289	-	-	-	-
Michigan	6,555	190	1,870	-	4,495	-	-	-	-
Ohio	56,346	4,666	51,424	-	256	-	-	-	-
Wisconsin	4,357	1,863	-	-	2,494	-	-	-	-
West North Central	29,784	4,367	1,822	-	20,077	3,518	-	-	-
Iowa	10,440	1,612	-	-	5,310	3,518	-	-	-
Kansas	3,138	164	-	-	2,974	-	-	-	-
Minnesota	1,084	294	-	-	790	-	-	-	-
Missouri	1,905	83	1,822	-	-	-	-	-	-
Nebraska	4,137	1,264	-	-	2,873	-	-	-	-
North Dakota	7,422	921	-	-	6,501	-	-	-	-
South Dakota	1,658	29	-	-	1,629	-	-	-	-
South Atlantic	406,427	165,837	161,850	2,219	7,840	68,681	-	-	-
Delaware	27	27	-	-	-	-	-	-	-
District of Columbia	7,382	4,987	1,695	-	700	-	-	-	-
Florida	68,313	6,101	60,490	-	1,722	-	-	-	-
Georgia	3,649	1,298	1,270	-	1,081	-	-	-	-
Maryland	178,869	144,376	33,549	-	944	-	-	-	-
North Carolina	3,357	2,088	-	-	1,269	-	-	-	-
South Carolina	3,724	650	831	2,219	24	-	-	-	-
Virginia	128,748	3,198	60,616	-	663	64,271	-	-	-
West Virginia	12,358	3,112	3,399	-	1,437	4,410	-	-	-
East South Central	220,212	42,389	142,639	25,328	9,541	315	-	-	-
Alabama	109,746	13,766	95,960	-	20	-	-	-	-
Kentucky	652	-	-	-	652	-	-	-	-
Mississippi	47,371	1,874	37,228	-	8,269	-	-	-	-
Tennessee	62,443	26,749	9,451	25,328	600	315	-	-	-
West South Central	247,913	10,996	109,326	-	14,918	-	112,673	-	-
Arkansas	2,177	1,530	-	-	647	-	-	-	-
Louisiana	33,615	6,313	17,437	-	9,865	-	-	-	-
Oklahoma	1,493	974	71	-	448	-	-	-	-
Texas	210,628	2,179	91,818	-	3,958	-	112,673	-	-
Mountain	327,321	14,566	101,866	106,823	1,908	99,519	-	2,639	-
Arizona	2,536	1,810	-	-	726	-	-	-	-
Colorado	32,255	7,151	17,893	400	525	4,100	-	2,186	-
Idaho	30,323	494	-	29,616	213	-	-	-	-
Montana	546	230	-	-	316	-	-	-	-
Nevada	61,070	171	60,822	-	77	-	-	-	-
New Mexico	197,932	2,102	23,151	76,807	-	95,419	-	453	-
Utah	2,498	2,447	-	-	51	-	-	-	-
Wyoming	161	161	-	-	-	-	-	-	-
Pacific	527,958	36,762	268,897	36,675	28,768	148,445	-	8,396	15
Alaska	11,080	10,997	-	-	83	-	-	-	-
California	459,041	22,462	266,854	8,037	13,228	148,445	-	-	15
Hawaii	1,364	123	-	-	1,241	-	-	-	-
Oregon	12,297	1,638	169	-	10,490	-	-	-	-
Washington	44,176	1,542	1,874	28,638	3,726	-	-	8,396	-
Outlying areas	14,944	8,396	4,848	-	-	1,700	-	-	-
Offices abroad	326	326	-	-	-	-	-	-	-

1/ Federal installations

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-138. Federal obligations for R&D plant, by geographic division, State, and agency: fiscal year 1990

[Dollars in thousands]

Geographic division and State	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	Environmental Protection Agency	National Aeronautics & Space Admin	National Science Foundation
Total	2,230,060	102,239	15,367	487,349	916,041	107,800	14,049	21,792	-	526,136	39,287
New England	82,311	855	2,000	54,852	15,407	2,304	-	400	-	6,493	-
Connecticut	1,842	120	-	25	704	593	-	400	-	-	-
Maine	740	125	-	500	-	115	-	-	-	-	-
Massachusetts	78,230	201	2,000	54,103	13,906	1,596	-	-	-	6,424	-
New Hampshire	325	50	-	206	-	-	-	-	-	69	-
Rhode Island	815	-	-	18	797	-	-	-	-	-	-
Vermont	359	359	-	-	-	-	-	-	-	-	-
Middle Atlantic	187,958	3,774	3,772	23,079	113,966	717	572	21,392	-	6,322	14,364
New Jersey	51,315	104	3,171	10,846	3,264	-	190	21,392	-	2,419	9,929
New York	100,601	2,975	60	11,840	82,924	360	-	-	-	-	2,442
Pennsylvania	36,042	695	541	393	27,778	357	382	-	-	3,903	1,993
East North Central	184,906	7,166	1,120	13,557	114,432	545	1,000	-	-	43,193	3,893
Illinois	116,336	2,641	-	252	109,828	118	-	-	-	4	3,493
Indiana	1,312	23	-	-	989	-	-	-	-	-	300
Michigan	6,555	3,063	-	-	1,827	276	-	-	-	1,289	100
Ohio	56,346	2	1,120	13,305	129	151	-	-	-	41,639	-
Wisconsin	4,357	1,437	-	-	1,659	-	1,000	-	-	261	-
West North Central	29,784	23,453	12	315	3,616	893	-	-	-	1,495	-
Iowa	10,440	6,922	-	-	3,518	-	-	-	-	-	-
Kansas	3,138	3,037	-	-	-	101	-	-	-	-	-
Minnesota	1,084	294	-	-	98	692	-	-	-	-	-
Missouri	1,905	83	12	315	-	-	-	-	-	1,495	-
Nebraska	4,137	4,137	-	-	-	-	-	-	-	-	-
North Dakota	7,422	7,322	-	-	-	100	-	-	-	-	-
South Dakota	1,658	1,658	-	-	-	-	-	-	-	-	-
South Atlantic	406,427	27,050	5,330	38,871	73,247	99,067	5,835	-	-	151,641	5,386
Delaware	27	27	-	-	-	-	-	-	-	-	-
District of Columbia	7,382	3,275	-	1,384	1,866	700	-	-	-	157	-
Florida	68,313	2,240	36	7,217	238	-	-	-	-	58,582	-
Georgia	3,649	2,253	-	-	-	126	-	-	-	1,270	-
Maryland	178,869	15,788	5,029	27,175	666	95,550	2,000	-	-	31,685	976
North Carolina	3,357	260	-	-	406	2,691	-	-	-	-	-
South Carolina	3,724	650	-	-	2,243	-	-	-	-	831	-
Virginia	128,748	571	265	3,095	64,366	-	1,335	-	-	59,116	-
West Virginia	12,358	1,986	-	-	3,462	-	2,500	-	-	-	4,410
East South Central	220,212	10,494	-	40,796	27,812	972	105	-	-	140,033	-
Alabama	109,746	119	-	13,568	20	-	105	-	-	95,934	-
Kentucky	652	-	-	-	-	652	-	-	-	-	-
Mississippi	47,371	10,135	-	-	8	-	-	-	-	37,228	-
Tennessee	62,443	240	-	27,228	27,784	320	-	-	-	6,871	-
West South Central	247,913	10,278	1,500	20,015	123,633	232	3,000	-	-	89,255	-
Arkansas	2,177	677	1,500	-	-	-	-	-	-	-	-
Louisiana	33,615	3,298	-	15	9,865	-	3,000	-	-	17,437	-
Oklahoma	1,493	1,251	-	-	96	146	-	-	-	-	-
Texas	210,628	5,052	-	20,000	113,672	86	-	-	-	71,818	-
Mountain	327,321	9,632	1,620	48,601	248,938	1,362	971	-	-	7,646	8,551
Arizona	2,536	1,810	-	-	35	563	-	-	-	128	-
Colorado	32,255	6,415	1,615	12,563	2,652	459	-	-	-	-	8,551
Idaho	30,323	494	-	-	29,616	213	-	-	-	-	-
Montana	546	470	-	-	-	76	-	-	-	-	-
Nevada	61,070	59	-	-	60,040	-	971	-	-	-	-
New Mexico	197,932	169	5	33,645	156,595	-	-	-	-	7,518	-
Utah	2,498	54	-	2,393	-	51	-	-	-	-	-
Wyoming	161	161	-	-	-	-	-	-	-	-	-
Pacific	527,958	9,448	13	233,782	194,990	1,708	2,566	-	-	80,058	5,393
Alaska	11,080	25	-	10,972	-	83	-	-	-	-	-
California	459,041	4,639	13	222,710	147,224	730	-	-	-	78,332	5,393
Hawaii	1,364	1,210	-	-	154	-	-	-	-	-	-
Oregon	12,297	434	-	-	10,200	290	1,373	-	-	-	-
Washington	44,176	3,140	-	100	37,412	605	1,193	-	-	1,726	-
Outlying areas	14,944	89	-	13,155	-	-	-	-	-	-	1,700
Offices abroad	326	-	-	326	-	-	-	-	-	-	-

NOTE: Only the following ten agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the ten major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1990.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-139. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	16,002,508	5,804,123	36.27	16,469,236	6,266,310	38.05	17,645,406	6,418,908	36.38
Departments									
Department of Agriculture, total	737,098	429,879	58.32	788,154	453,722	57.57	826,394	482,455	58.38
Agricultural Cooperative Service	2,498	1,750	70.06	2,647	1,842	69.59	2,795	1,946	69.62
Agricultural Marketing Service 1/	2,476	1,937	78.23	3,014	2,318	76.91	3,207	2,481	77.36
Agricultural Research Service	505,471	282,053	55.80	540,694	290,353	53.70	574,872	310,431	54.00
Animal & Plant Health Inspection Svc	7,528	5,546	73.67	8,181	5,920	72.36	8,636	6,245	72.31
Cooperative State Research Service	14,569	7,943	54.52	16,680	9,105	54.59	17,288	10,304	59.60
Economic Research Service	49,246	38,056	77.28	53,200	41,071	77.20	61,279	43,945	71.71
Federal Grain Inspection Service	389	269	69.15	460	84	18.26	460	84	18.26
Forest Service	145,381	85,347	58.71	150,916	95,713	63.42	147,051	98,387	66.91
Human Nutrition Information Service	5,800	3,860	66.55	8,518	4,100	48.13	6,784	5,261	77.55
Nat'l Agricultural Statistics Svc	2,545	1,923	75.56	2,617	1,989	76.00	2,711	2,060	75.99
Off of Internat'l Cooperation & Development	1,195	1,195	100.00	1,227	1,227	100.00	1,311	1,311	100.00
Department of Commerce, total	336,325	218,856	65.07	383,893	248,391	64.70	430,540	252,061	58.55
Bureau of the Census	4,264	3,028	71.01	4,596	3,264	71.02	4,596	1,264	27.50
Economic Development Administration	764	750	98.17	755	740	98.01	-	-	-
Nat'l Institute of Standards & Tech	113,816	76,844	67.52	124,170	87,184	70.21	144,136	98,638	68.43
Nat'l Oceanic & Atmospheric Admin	209,775	131,495	62.68	246,396	150,370	61.03	271,779	144,140	53.04
Nat'l Telecomm & Information Admin	7,706	6,739	87.45	7,976	6,833	85.67	10,029	8,019	79.96
Department of Defense, total	9,638,968	2,593,587	26.91	9,322,278	2,733,418	29.32	9,889,625	2,696,492	27.27
Department of the Army	2,036,898	986,058	48.41	2,108,299	1,038,188	49.24	2,169,181	975,390	44.97
Department of the Navy	2,995,742	1,156,712	38.61	2,852,815	1,131,234	39.65	2,805,232	1,128,254	40.22
Department of the Air Force	2,870,021	257,691	8.98	2,311,339	223,448	9.67	2,930,449	275,219	9.39
Defense agencies	1,598,848	191,493	11.98	1,937,558	337,248	17.41	1,797,760	314,184	17.48
Test and Evaluation, Deputy Under Secretary Defense	115,126	1,328	1.15	111,558	2,880	2.58	186,401	2,995	1.61
Director, Operational Test and Evaluation	22,333	305	1.37	709	420	59.24	602	450	74.75
Department of Education	17,685	8,500	48.06	19,543	9,752	49.90	22,058	11,040	50.05
Department of Energy	307,329	103,202	33.58	382,731	114,370	29.88	448,826	123,771	27.58
Dept of Hlth & Human Services, total	1,661,699	698,266	42.02	1,849,734	788,785	42.64	1,965,711	845,666	43.02
Administration for Children and Families 2/	1,641	1,574	95.92	1,791	1,716	95.81	1,897	1,822	96.05
Agency for Health Care Policy & Research 3/	13,975	6,811	48.74	23,057	9,476	41.10	17,768	10,402	58.54
Alcohol, Drug Abuse & Mental Hlth Admin	230,015	70,826	30.79	252,781	80,338	31.78	267,309	86,333	32.30
Centers for Disease Control	38,508	32,731	85.00	50,608	43,017	85.00	52,825	44,901	85.00
Food & Drug Administration	92,070	83,784	91.00	102,789	93,538	91.00	116,529	106,041	91.00
Health Care Financing Admin	273	10	3.66	347	10	2.88	324	10	3.09
Health Resources and Services Administration	3,010	2,407	79.97	2,996	2,510	83.78	3,298	2,618	79.38
National Institutes of Health	1,270,210	495,193	38.99	1,392,231	551,611	39.62	1,485,469	586,428	39.48
Office of Asst Secy for Health	5,994	428	7.14	9,781	1,403	14.34	2,450	1,752	71.51
Office of the Secretary	1,421	301	21.18	1,500	610	40.67	1,500	650	43.33
Social Security Administration	4,582	4,201	91.68	11,853	4,556	38.44	16,342	4,709	28.82
Dept of Housing & Urban Development	14,216	10,500	73.86	15,627	11,100	71.03	13,878	10,200	73.50
Department of the Interior, total	423,717	277,677	65.53	481,586	303,081	62.93	478,742	317,956	66.41
Bureau of Land Management	2,450	300	12.24	2,166	1,100	50.78	4,215	2,136	50.68
Bureau of Mines	68,074	51,926	76.28	71,728	54,483	75.96	66,779	49,765	74.52
Bureau of Reclamation	5,416	4,305	79.49	8,600	6,105	70.99	10,660	9,061	85.00
Geological Survey	269,237	160,763	59.71	306,184	171,463	56.00	302,681	187,662	62.00
Minerals Management Service	1,014	412	40.63	1,071	499	46.59	1,781	681	38.24
National Park Service	14,300	3,250	22.73	18,300	4,300	23.50	21,250	5,200	24.47
Office of the Secretary	25	20	80.00	35	29	82.86	75	50	66.67
Off of Surface Mining Reclamation & Enforcement	1	1	100.00	2	2	100.00	1	1	100.00
US Fish & Wildlife Service	63,200	56,700	89.72	73,500	65,100	88.57	71,300	63,400	88.92
Department of Justice, total	12,862	4,887	38.00	14,169	5,061	35.72	15,972	5,393	33.77
Drug Enforcement Administration	271	271	100.00	300	300	100.00	375	375	100.00
Federal Bureau of Investigation	8,205	3,263	39.77	10,679	3,410	31.93	10,832	3,563	32.89
Federal Prison System	1,825	1,300	71.23	1,950	1,300	66.67	1,850	1,400	75.68
Immigration & Naturalization Svc	40	40	100.00	40	40	100.00	40	40	100.00
Office of Justice Programs	2,521	13	.52	1,200	11	.92	2,875	15	.52

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-139. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of Labor, total	8,047	4,306	53.51	7,153	4,077	57.00	7,817	4,320	55.26
Bureau of Labor Statistics	2,500	55	2.20	2,500	57	2.28	2,900	59	2.03
Employment Standards Administration	53	7	13.21	181	7	3.87	139	7	5.04
Employment and Training Admin	1,347	392	29.10	558	458	82.08	580	521	89.83
Occupational Safety & Health Admin	378	378	100.00	400	400	100.00	400	400	100.00
Office of the Secretary	2,899	2,899	100.00	2,563	2,548	99.41	2,730	2,730	100.00
Pension Benefit Guaranty Corporation	365	70	19.18	425	81	19.06	520	55	10.58
Pension & Welfare Benefits Admin	505	505	100.00	526	526	100.00	548	548	100.00
Department of State	239	239	100.00	276	276	100.00	287	287	100.00
Department of Transportation, total	199,155	62,195	31.23	215,543	86,935	40.33	239,371	96,588	40.35
Coast Guard	14,247	4,472	31.39	17,350	5,446	31.39	20,048	6,271	31.28
Federal Aviation Administration	163,591	50,686	30.98	169,004	73,486	43.48	183,777	81,107	44.13
Federal Highway Administration	1,823	570	31.27	2,313	790	34.15	4,203	845	20.10
Federal Railroad Administration	5,683	915	16.10	10,967	1,119	10.20	11,280	1,388	12.30
Maritime Administration	278	100	35.97	300	105	35.00	525	110	20.95
Nat'l Highway Traffic Safety Admin	7,248	2,928	40.40	10,021	3,638	36.30	11,135	4,042	36.30
Office of the Secretary	3,572	2,052	57.45	3,037	1,896	62.43	4,400	2,140	48.64
Research & Special Programs Admin	1,716	172	10.02	1,551	155	9.99	2,844	285	10.02
Urban Mass Transportation Admin	997	300	30.09	1,000	300	30.00	1,159	400	34.51
Department of the Treasury, total	13,202	10,284	77.90	17,098	11,438	66.90	17,076	11,855	69.42
Bureau of Engraving and Printing	1,856	143	7.70	4,546	211	4.64	4,512	616	13.65
Internal Revenue Service	10,869	9,664	88.91	11,947	10,622	88.91	11,947	10,622	88.91
Office of Protective Research	236	236	100.00	243	243	100.00	255	255	100.00
United States Customs Service	200	200	100.00	300	300	100.00	300	300	100.00
United States Mint	41	41	100.00	62	62	100.00	62	62	100.00
Department of Veterans Affairs	235,400	158,188	67.20	240,900	160,440	66.60	218,500	145,655	66.66
Other agencies									
Advisory Comm on Intergov'tl Relations	1,513	861	56.91	1,528	901	58.97	1,416	905	63.91
Agency for Internat'l Development	23,052	17,288	75.00	18,499	13,874	75.00	14,098	13,236	93.89
Appalachian Regional Commission	9	9	100.00	56	56	100.00	-	-	-
Consumer Product Safety Commission	1,035	1,020	98.55	1,384	775	56.00	1,075	470	43.72
Environmental Protection Agency	118,640	114,600	96.59	130,037	127,400	97.97	104,037	99,400	95.54
Federal Communications Commission	1,329	1,329	100.00	1,561	1,561	100.00	1,414	1,414	100.00
Federal Trade Commission	459	404	88.02	493	434	88.03	519	457	88.05
General Services Administration	665	499	75.04	-	-	-	-	-	-
International Trade Commission	9,065	5,146	56.77	10,906	6,363	58.34	11,790	6,763	57.36
Library of Congress	8,412	5,429	64.54	9,190	5,793	63.04	9,567	6,009	62.81
National Aeronautics & Space Admin	1,968,411	905,420	46.00	2,271,290	996,810	43.89	2,612,657	1,092,401	41.81
National Archives & Records Admin	265	140	52.83	566	121	21.38	300	200	66.67
National Science Foundation	86,255	60,379	70.00	86,726	60,708	70.00	88,462	61,923	70.00
Nuclear Regulatory Commission	49,012	30,272	61.76	50,948	33,904	66.55	56,258	36,132	64.23
Office of Thrift Supervision 4/	4,126	1,905	46.17	3,291	2,067	62.81	3,494	2,274	65.08
Smithsonian Institution	83,987	55,286	65.83	98,180	66,762	68.00	111,744	72,634	65.00
Tennessee Valley Authority	39,861	23,555	59.09	45,351	17,831	39.32	52,428	20,444	38.99
US Arms Control & Disarmament Agency	20	10	50.00	145	100	68.97	700	500	71.43
United States Information Agency	450	5	1.11	400	4	1.00	650	7	1.08

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-140. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	2,366,020	1,176,864	49.74	2,591,658	1,276,152	49.24	2,754,770	1,348,552	48.95
Departments									
Department of Agriculture, total	344,858	195,039	56.56	367,179	204,689	55.75	385,818	217,785	56.45
Agricultural Marketing Service 1/	540	422	78.15	540	415	76.85	556	430	77.34
Agricultural Research Service	272,410	152,005	55.80	291,386	156,474	53.70	309,808	167,296	54.00
Cooperative State Research Service	8,126	3,765	46.33	8,104	4,115	50.78	8,380	4,657	55.57
Economic Research Service	6,895	5,328	77.27	7,501	5,791	77.20	8,579	6,152	71.71
Forest Service	55,599	32,455	58.37	57,958	36,435	62.86	56,445	37,438	66.33
Nat'l Agricultural Statistics Svc	917	693	75.57	961	730	75.96	992	754	76.01
Off of Internat'l Cooperation & Development	371	371	100.00	729	729	100.00	1,058	1,058	100.00
Department of Commerce, total	25,956	17,625	67.90	27,476	20,004	72.81	29,813	22,607	75.83
Bureau of the Census	225	160	71.11	266	189	71.05	266	189	71.05
Nat'l Institute of Standards & Tech	25,731	17,465	67.88	27,210	19,815	72.82	29,547	22,418	75.87
Department of Defense, total	300,136	122,306	40.75	311,511	135,370	43.46	341,378	140,808	41.25
Department of the Army	103,288	51,794	50.15	98,070	54,042	55.11	108,426	52,634	48.54
Department of the Navy	128,464	56,421	43.92	148,060	67,663	45.70	163,450	75,740	46.34
Department of the Air Force	60,964	9,315	15.28	57,320	8,764	15.29	65,586	10,028	15.29
Defense agencies	7,420	4,776	64.37	8,061	4,901	60.80	3,916	2,406	61.44
Department of Education	348	323	92.82	609	348	57.14	415	379	91.33
Department of Energy	43,477	18,343	42.19	47,554	26,418	55.55	45,140	30,755	68.13
Dept of Hlth & Human Services, total	816,724	349,475	42.79	919,272	389,846	42.41	988,753	414,763	41.95
Alcohol, Drug Abuse & Mental Hlth Admin	112,812	41,555	36.84	121,223	46,642	38.48	126,626	49,919	39.42
Health Resources and Services Administration	1,150	900	78.26	1,523	1,205	79.12	1,599	1,259	78.74
National Institutes of Health	702,762	307,020	43.69	796,526	341,999	42.94	860,528	363,585	42.25
Department of the Interior, total	170,838	108,754	63.66	192,107	114,337	59.52	182,836	117,196	64.10
Bureau of Land Management	-	-	-	100	50	50.00	300	150	50.00
Bureau of Mines	26,992	20,589	76.28	27,130	20,607	75.96	26,145	18,982	72.60
Bureau of Reclamation	5	2	40.00	100	85	85.00	-	-	-
Geological Survey	141,241	86,163	61.00	161,777	90,595	56.00	153,491	95,164	62.00
US Fish & Wildlife Service	2,600	2,000	76.92	3,000	3,000	100.00	2,900	2,900	100.00
Department of Justice, total	250	3	1.20	200	3	1.50	500	3	.60
Office of Justice Programs	250	3	1.20	200	3	1.50	500	3	.60
Department of Labor, total	30	30	100.00	30	25	83.33	30	25	83.33
Employment and Training Admin	30	30	100.00	30	25	83.33	30	25	83.33
Department of State	75	75	100.00	81	81	100.00	84	84	100.00
Department of the Treasury, total	2,174	1,934	88.96	2,390	2,125	88.91	2,390	2,125	88.91
Internal Revenue Service	2,174	1,934	88.96	2,390	2,125	88.91	2,390	2,125	88.91
Department of Veterans Affairs	16,200	10,886	67.20	15,800	10,523	66.60	15,800	10,523	66.60
Other agencies									
Agency for Internat'l Development	54	40	74.07	89	67	75.28	83	62	74.70
Environmental Protection Agency	7,800	6,745	86.47	12,204	12,200	99.97	8,450	7,900	93.49
Library of Congress	295	166	56.27	314	182	57.96	328	190	57.93
National Aeronautics & Space Admin	462,326	226,809	49.06	508,600	231,885	45.59	552,296	248,626	45.02
National Archives & Records Admin	155	55	35.48	356	6	1.69	150	50	33.33
National Science Foundation	85,608	59,896	69.97	85,891	60,101	69.97	87,444	61,180	69.96
Smithsonian Institution	83,987	55,286	65.83	98,180	66,762	68.00	111,744	72,634	65.00
Tennessee Valley Authority	4,729	3,074	65.00	1,815	1,180	65.01	1,318	857	65.02

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-141. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	3,587,266	1,966,762	54.83	3,948,603	2,174,588	55.07	4,393,423	2,304,590	52.46
Departments									
Department of Agriculture, total	355,661	214,289	60.25	382,390	228,018	59.63	399,958	242,295	60.58
Agricultural Cooperative Service	2,498	1,750	70.06	2,647	1,842	69.59	2,795	1,946	69.62
Agricultural Marketing Service 1/	1,497	1,172	78.29	1,972	1,517	76.93	2,115	1,636	77.35
Agricultural Research Service	202,188	112,821	55.80	216,277	116,141	53.70	229,948	124,172	54.00
Animal & Plant Health Inspection Svc	7,528	5,546	73.67	8,181	5,920	72.36	8,636	6,245	72.31
Cooperative State Research Service	6,443	4,178	64.85	8,576	4,990	58.19	8,908	5,647	63.39
Economic Research Service	42,351	32,728	77.28	45,699	35,280	77.20	52,700	37,793	71.71
Federal Grain Inspection Service	104	53	50.96	334	60	17.96	334	60	17.96
Forest Service	84,982	50,309	59.20	88,158	56,537	64.13	85,906	58,116	67.65
Human Nutrition Information Service	5,800	3,860	66.55	8,518	4,100	48.13	6,784	5,261	77.55
Nat'l Agricultural Statistics Svc	1,628	1,230	75.55	1,656	1,259	76.03	1,719	1,306	75.97
Off of Internat'l Cooperation & Development	642	642	100.00	372	372	100.00	113	113	100.00
Department of Commerce, total	286,972	188,011	65.52	326,584	205,222	62.84	357,575	202,121	56.53
Bureau of the Census	2,053	1,458	71.02	2,425	1,722	71.01	2,425	722	29.77
Economic Development Administration	764	750	98.17	755	740	98.01	-	-	-
Nat'l Institute of Standards & Tech	77,892	51,520	66.14	84,260	58,453	69.37	97,253	66,132	68.00
Nat'l Oceanic & Atmospheric Admin	199,485	128,466	64.40	232,096	138,396	59.63	250,849	129,356	51.57
Nat'l Telecomm & Information Admin	6,778	5,817	85.82	7,048	5,911	83.87	7,048	5,911	83.87
Department of Defense, total	908,929	563,798	62.03	890,564	626,672	70.37	1,023,679	671,676	65.61
Department of the Army	376,919	246,723	65.46	360,142	294,170	81.68	392,073	299,978	76.51
Department of the Navy	220,693	127,936	57.97	239,720	138,395	57.73	256,030	147,729	57.70
Department of the Air Force	158,233	148,739	94.00	144,016	135,375	94.00	174,543	164,070	94.00
Defense agencies	153,084	40,400	26.39	146,686	58,732	40.04	201,033	59,899	29.80
Department of Education	14,905	6,079	40.78	16,429	7,235	44.04	17,913	7,338	40.96
Department of Energy	114,980	33,172	28.85	153,378	32,101	20.93	193,782	42,544	21.95
Dept of Hlth & Human Services, total	636,331	296,314	46.57	699,850	340,235	48.62	730,198	368,529	50.47
Administration for Children and Families 2/	381	314	82.41	438	363	82.88	461	386	83.73
Agency for Health Care Policy & Research 3/	11,556	6,062	52.46	20,929	8,434	40.30	15,744	9,258	58.80
Alcohol, Drug Abuse & Mental Hlth Admin	86,114	28,581	33.19	95,564	32,811	34.33	100,898	35,413	35.10
Centers for Disease Control	38,508	32,731	85.00	50,608	43,017	85.00	52,825	44,901	85.00
Food & Drug Administration	92,070	83,784	91.00	102,789	93,538	91.00	116,529	106,041	91.00
Health Care Financing Admin	273	10	3.66	347	10	2.88	324	10	3.09
Health Resources and Services Administration	1,860	1,507	81.02	1,473	1,305	88.59	1,699	1,359	79.99
National Institutes of Health	393,831	138,654	35.21	404,831	154,451	38.15	421,576	164,200	38.95
Office of Asst Secy for Health	5,844	278	4.76	9,631	1,253	13.01	2,300	1,602	69.65
Office of the Secretary	1,421	301	21.18	1,500	610	40.67	1,500	650	43.33
Social Security Administration	4,473	4,092	91.48	11,740	4,443	37.84	16,342	4,709	28.82
Dept of Housing & Urban Development	6,123	4,300	70.23	6,590	4,700	71.32	5,474	3,900	71.25
Department of the Interior, total	234,679	154,597	65.88	269,147	171,936	63.88	271,732	180,503	66.43
Bureau of Land Management	2,000	250	12.50	1,368	700	51.17	2,441	1,249	51.17
Bureau of Mines	37,360	28,498	76.28	40,450	30,725	75.96	35,809	27,100	75.68
Bureau of Reclamation	4,933	4,022	81.53	7,700	5,479	71.16	10,160	8,636	85.00
Geological Survey	121,871	70,864	58.15	140,057	78,432	56.00	144,090	89,336	62.00
Minerals Management Service	1,014	412	40.63	1,071	499	46.59	1,781	681	38.24
National Park Service	14,300	3,250	22.73	18,300	4,300	23.50	21,250	5,200	24.47
Off of Surface Mining Reclamation & Enforcement	1	1	100.00	1	1	100.00	1	1	100.00
US Fish & Wildlife Service	53,200	47,300	88.91	60,200	51,800	86.05	56,200	48,300	85.94
Department of Justice, total	2,074	1,214	58.53	2,240	1,144	51.07	2,440	1,294	53.03
Drug Enforcement Administration	21	21	100.00	50	50	100.00	50	50	100.00
Federal Prison System	1,625	1,150	70.77	1,650	1,050	63.64	1,550	1,200	77.42
Immigration & Naturalization Svc	40	40	100.00	40	40	100.00	40	40	100.00
Office of Justice Programs	388	3	.77	500	4	.80	800	4	.50

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-141. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of Labor, total	6,283	3,284	52.27	6,177	3,239	52.44	7,024	3,642	51.85
Bureau of Labor Statistics	2,500	55	2.20	2,500	57	2.28	2,900	59	2.03
Employment Standards Administration	53	7	13.21	181	7	3.87	139	7	5.04
Employment and Training Admin	400	162	40.50	100	98	98.00	200	196	98.00
Occupational Safety & Health Admin	378	378	100.00	400	400	100.00	400	400	100.00
Office of the Secretary	2,147	2,147	100.00	2,115	2,115	100.00	2,387	2,387	100.00
Pension Benefit Guaranty Corporation	300	30	10.00	355	36	10.14	450	45	10.00
Pension & Welfare Benefits Admin	505	505	100.00	526	526	100.00	548	548	100.00
Department of State	164	164	100.00	195	195	100.00	203	203	100.00
Department of Transportation, total	35,104	10,803	30.77	42,590	17,210	40.41	43,778	13,665	31.21
Coast Guard	3,442	1,015	29.49	4,192	1,236	29.48	4,761	1,380	28.99
Federal Aviation Administration	15,929	5,192	32.59	15,882	10,705	67.40	13,643	6,368	46.68
Federal Highway Administration	1,312	450	34.30	1,050	360	34.29	1,390	280	20.14
Federal Railroad Administration	4,991	761	15.25	9,512	929	9.77	9,380	1,100	11.73
Maritime Administration	278	100	35.97	300	105	35.00	525	110	20.95
Nat'l Highway Traffic Safety Admin	7,248	2,928	40.40	10,021	3,638	36.30	11,135	4,042	36.30
Office of the Secretary	188	185	98.40	82	82	100.00	100	100	100.00
Research & Special Programs Admin	1,716	172	10.02	1,551	155	9.99	2,844	285	10.02
Department of the Treasury, total	9,951	7,980	80.19	12,578	8,878	70.58	12,801	9,058	70.76
Bureau of Engraving and Printing	1,137	107	9.41	2,866	200	6.98	3,077	368	11.96
Internal Revenue Service	8,478	7,537	88.90	9,319	8,285	88.90	9,319	8,285	88.90
Office of Protective Research	236	236	100.00	243	243	100.00	255	255	100.00
United States Customs Service	100	100	100.00	150	150	100.00	150	150	100.00
Department of Veterans Affairs	198,600	133,459	67.20	204,300	136,064	66.60	181,900	121,279	66.67
Other agencies									
Advisory Comm on Intergov'tl Relations	1,513	861	56.91	1,528	901	58.97	1,416	905	63.91
Agency for Internat'l Development	18,940	14,205	75.00	14,395	10,796	75.00	10,649	10,649	100.00
Appalachian Regional Commission	9	9	100.00	56	56	100.00	-	-	-
Consumer Product Safety Commission	365	350	95.89	1,039	430	41.39	1,005	400	39.80
Environmental Protection Agency	89,255	88,287	98.92	98,440	96,700	98.23	82,722	80,200	96.95
Federal Communications Commission	1,329	1,329	100.00	1,561	1,561	100.00	1,414	1,414	100.00
Federal Trade Commission	459	404	88.02	493	434	88.03	519	457	88.05
General Services Administration	665	499	75.04	-	-	-	-	-	-
International Trade Commission	9,065	5,146	56.77	10,906	6,363	58.34	11,790	6,763	57.36
Library of Congress	1,166	655	56.17	1,265	733	57.94	1,314	761	57.91
National Aeronautics & Space Admin	585,278	197,274	33.71	727,110	232,539	31.98	952,794	285,343	29.95
National Archives & Records Admin	80	55	68.75	130	35	26.92	60	60	100.00
National Science Foundation	647	483	74.65	835	607	72.69	1,018	743	72.99
Nuclear Regulatory Commission	49,012	30,272	61.76	50,948	33,904	66.55	56,258	36,132	64.23
Office of Thrift Supervision 4/	4,126	1,905	46.17	3,291	2,067	62.81	3,494	2,274	65.08
Tennessee Valley Authority	14,131	7,549	53.42	23,049	4,509	19.56	19,163	9,935	51.84
US Arms Control & Disarmament Agency	20	10	50.00	145	100	68.97	700	500	71.43
United States Information Agency	450	5	1.11	400	4	1.00	650	7	1.08

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-142. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	10,049,222	2,660,497	26.47	9,928,975	2,815,570	28.36	10,497,213	2,765,766	26.35
Departments									
Department of Agriculture, total	36,579	20,551	56.18	38,585	21,015	54.46	40,618	22,375	55.09
Agricultural Marketing Service 1/	439	343	78.13	502	386	76.89	536	415	77.43
Agricultural Research Service	30,873	17,227	55.80	33,031	17,738	53.70	35,116	18,963	54.00
Federal Grain Inspection Service	285	216	75.79	126	24	19.05	126	24	19.05
Forest Service	4,800	2,583	53.81	4,800	2,741	57.10	4,700	2,833	60.28
Off of Internat'l Cooperation & Development	182	182	100.00	126	126	100.00	140	140	100.00
Department of Commerce, total	23,397	13,220	56.50	29,833	23,165	77.65	43,152	27,333	63.34
Bureau of the Census	1,986	1,410	71.00	1,905	1,353	71.02	1,905	353	18.53
Nat'l Institute of Standards & Tech	10,193	7,859	77.10	12,700	8,916	70.20	17,336	10,088	58.19
Nat'l Oceanic & Atmospheric Admin	10,290	3,029	29.44	14,300	11,974	83.73	20,930	14,784	70.64
Nat'l Telecomm & Information Admin	928	922	99.35	928	922	99.35	2,981	2,108	70.71
Department of Defense, total	8,429,903	1,907,483	22.63	8,120,203	1,971,376	24.28	8,524,568	1,884,008	22.10
Department of the Army	1,556,691	687,541	44.17	1,650,087	689,976	41.81	1,668,682	622,778	37.32
Department of the Navy	2,646,585	972,355	36.74	2,465,035	925,176	37.53	2,385,752	904,785	37.92
Department of the Air Force	2,650,824	99,637	3.76	2,110,003	79,309	3.76	2,690,320	101,121	3.76
Defense agencies	1,438,344	146,317	10.17	1,782,811	273,615	15.35	1,592,811	251,879	15.81
Test and Evaluation, Deputy Under Secretary Defense	115,126	1,328	1.15	111,558	2,880	2.58	186,401	2,995	1.61
Director, Operational Test and Evaluation	22,333	305	1.37	709	420	59.24	602	450	74.75
Department of Education	2,432	2,098	86.27	2,505	2,169	86.59	3,730	3,323	89.09
Department of Energy	148,872	51,687	34.72	181,799	55,851	30.72	209,904	50,472	24.05
Dept of Hlth & Human Services, total	208,644	52,477	25.15	230,612	58,704	25.46	246,760	62,374	25.28
Administration for Children and Families 2/	1,260	1,260	100.00	1,353	1,353	100.00	1,436	1,436	100.00
Agency for Health Care Policy & Research 3/	2,419	749	30.96	2,128	1,042	48.97	2,024	1,144	56.52
Alcohol, Drug Abuse & Mental Hlth Admin	31,089	690	2.22	35,994	885	2.46	39,785	1,001	2.52
National Institutes of Health	173,617	49,519	28.52	190,874	55,161	28.90	203,365	58,643	28.84
Office of Asst Secy for Health	150	150	100.00	150	150	100.00	150	150	100.00
Social Security Administration	109	109	100.00	113	113	100.00	-	-	-
Dept of Housing & Urban Development	8,093	6,200	76.61	9,037	6,400	70.82	8,404	6,300	74.96
Department of the Interior, total	18,200	14,326	78.71	20,332	16,808	82.67	24,174	20,257	83.80
Bureau of Land Management	450	50	11.11	698	350	50.14	1,474	737	50.00
Bureau of Mines	3,722	2,839	76.28	4,148	3,151	75.96	4,825	3,683	76.33
Bureau of Reclamation	478	281	58.79	800	541	67.62	500	425	85.00
Geological Survey	6,125	3,736	61.00	4,350	2,436	56.00	5,100	3,162	62.00
Office of the Secretary	25	20	80.00	35	29	82.86	75	50	66.67
Off of Surface Mining Reclamation & Enforcement	-	-	-	1	1	100.00	-	-	-
US Fish & Wildlife Service	7,400	7,400	100.00	10,300	10,300	100.00	12,200	12,200	100.00
Department of Justice, total	10,538	3,670	34.83	11,729	3,914	33.37	13,032	4,096	31.43
Drug Enforcement Administration	250	250	100.00	250	250	100.00	325	325	100.00
Federal Bureau of Investigation	8,205	3,263	39.77	10,679	3,410	31.93	10,832	3,563	32.89
Federal Prison System	200	150	75.00	300	250	83.33	300	200	66.67
Office of Justice Programs	1,883	7	.37	500	4	.80	1,575	8	.51

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-142. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1990, 1991, and 1992

[Dollars in thousands]

Agency and subdivision	1990			Estimates					
				1991			1992		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of Labor, total	1,734	992	57.21	946	813	85.94	763	653	85.58
Employment and Training Admin	917	200	21.81	428	335	78.27	350	300	85.71
Office of the Secretary	752	752	100.00	448	433	96.65	343	343	100.00
Pension Benefit Guaranty Corporation	65	40	61.54	70	45	64.29	70	10	14.29
Department of Transportation, total	164,051	51,392	31.33	172,953	69,725	40.31	195,593	82,923	42.40
Coast Guard	10,805	3,457	31.99	13,158	4,210	32.00	15,287	4,891	31.99
Federal Aviation Administration	147,662	45,494	30.81	153,122	62,781	41.00	170,134	74,739	43.93
Federal Highway Administration	511	120	23.48	1,263	430	34.05	2,813	565	20.09
Federal Railroad Administration	692	154	22.25	1,455	190	13.06	1,900	288	15.16
Office of the Secretary	3,384	1,867	55.17	2,955	1,814	61.39	4,300	2,040	47.44
Urban Mass Transportation Admin	997	300	30.09	1,000	300	30.00	1,159	400	34.51
Department of the Treasury, total	1,077	370	34.35	2,130	435	20.42	1,885	672	35.65
Bureau of Engraving and Printing	719	36	5.01	1,680	11	.65	1,435	248	17.28
Internal Revenue Service	217	193	88.94	238	212	89.08	238	212	89.08
United States Customs Service	100	100	100.00	150	150	100.00	150	150	100.00
United States Mint	41	41	100.00	62	62	100.00	62	62	100.00
Department of Veterans Affairs	20,600	13,843	67.20	20,800	13,853	66.60	20,800	13,853	66.60
Other agencies									
Agency for Internat'l Development	4,058	3,043	74.99	4,015	3,011	74.99	3,366	2,525	75.01
Consumer Product Safety Commission	670	670	100.00	345	345	100.00	70	70	100.00
Environmental Protection Agency	21,585	19,568	90.66	19,393	18,500	95.40	12,865	11,300	87.84
Library of Congress	6,951	4,608	66.29	7,611	4,878	64.09	7,925	5,058	63.82
National Aeronautics & Space Admin	920,807	481,337	52.27	1,035,580	532,386	51.41	1,107,567	558,432	50.42
National Archives & Records Admin	30	30	100.00	80	80	100.00	90	90	100.00
Tennessee Valley Authority	21,001	12,932	61.58	20,487	12,142	59.27	31,947	9,652	30.21

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-143A. Federal outlays for research, development, and R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	15,970.7	16,727.1	17,488.8	18,297.1	19,550.8	21,020.9	22,882.9	25,127.9	27,041.0	30,635.8	34,065.9
Departments											
Dept of Agriculture, total	318.9	357.9	357.1	381.5	425.6	468.8	537.8	572.4	630.5	687.6	782.5
Agricultural Cooperative Svc 1/	.9	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	1.6	1.3
Agricultural Marketing Svc 2/	N/A	-	-	-	-	-	-	-	.9	1.3	1.2
Agricultural Research Svc 3/	182.8	208.7	199.3	210.5	232.8	247.4	294.6	318.4	331.2	371.6	425.9
Cooperative State Rsch Svc 4/	69.1	73.7	82.1	85.2	95.6	104.2	120.2	134.9	156.6	174.2	199.0
Econ, Stat & Coop Svc 5/	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A
Economic Research Svc	14.8	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	38.0
Economics & Statistics Svc 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A
Forest Service	50.2	56.5	58.3	65.6	72.5	90.3	92.5	86.7	105.7	100.6	101.8
National Agricultural Library	.4	.3	.3	.2	.1	.0	-	-	-	-	-
Off of Internat'l Coop & Dev't	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	6.4	6.9
Off of Transportation 2/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.5	.8	.9
Nat'l Agricultural Stat Svc	-	-	-	-	-	-	N/A	N/A	N/A	N/A	7.5
Department of Commerce, total	122.9	168.2	186.2	188.2	224.6	233.3	238.2	272.7	307.1	360.6	346.8
Nat'l Inst of Standards & Tech	33.5	34.7	36.8	42.5	47.2	49.1	53.1	59.0	64.8	77.1	84.4
Nat'l Oceanic & Atmos Admin	68.4	109.7	114.4	109.5	127.7	134.5	132.6	164.7	190.1	210.6	209.0
Other Commerce 7/	21.0	23.8	34.9	36.3	49.7	49.8	52.5	48.9	52.2	72.9	53.5
Department of Defense, total	7,706.0	8,297.2	8,597.6	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	11,733.1	13,706.1	15,993.0
Department of the Army	1,670.6	1,889.8	2,042.4	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,536.2	2,852.9	3,123.7
Department of the Navy	2,477.9	2,501.5	2,498.9	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	3,926.4	4,507.9	4,916.9
Department of the Air Force	3,025.6	3,426.2	3,588.5	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,428.0	5,323.6	6,756.6
Defense agencies	527.5	475.7	461.3	485.2	556.9	507.5	610.5	555.1	814.2	981.4	1,160.0
Defense Civil Preparedness Agency	4.5	4.0	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A
Test & Evaluation, Deputy Under Secretary Defense	-	-	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	136.5	120.9	111.8
Department of Energy	N/A	N/A	N/A	N/A	N/A	N/A	3,593.1	4,413.0	4,956.8	5,660.2	6,125.9
Dept of Hlth, Educ, & Welfare, total	1,326.8	1,554.5	1,878.4	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Hlth Admin	N/A	N/A	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	195.5	236.9	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A
National Institutes of Health	946.0	1,112.1	1,373.7	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	N/A	N/A	N/A
Office of Education	114.8	108.0	102.2	66.3	53.1	56.8	30.3	25.8	N/A	N/A	N/A
Other HEW	70.5	97.5	254.1	234.6	233.8	225.0	260.1	282.6	N/A	N/A	N/A
Dept of Hlth & Human Srvcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,172.7	3,554.1	3,997.5
Alcohol, Drug Abuse & Mental Hlth Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184.7	218.1	251.1
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,713.4	3,029.3	3,392.2
Other HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	274.5	306.8	354.3
Dept of Housing & Urban Development	40.5	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1
Dept of the Interior, total	182.8	213.0	254.1	194.8	266.0	319.7	304.0	339.9	404.3	431.5	436.9
Bureau of Mines	50.0	66.2	68.6	66.7	82.7	113.7	103.7	104.2	121.4	130.8	109.0
Geological Survey	41.9	50.2	62.7	68.7	95.2	115.7	112.2	128.7	144.2	145.2	168.2
Other Interior	91.0	96.6	122.8	59.4	88.1	90.4	88.1	107.0	138.7	155.5	159.7
Department of Justice, total	9.9	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1
Office of Justice Programs	7.8	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2
Other Justice	2.0	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9
Department of Labor	22.1	23.0	18.3	22.5	25.4	27.6	28.1	97.6	109.2	137.7	61.6
Department of State, total	29.5	21.7	20.8	24.8	28.6	27.0	44.1	57.5	3.2	2.2	1.8
Agency for Internat'l Devmnt 8/	29.1	21.2	19.3	23.2	27.4	25.4	41.8	54.6	N/A	N/A	N/A
Other State	.4	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-143A. Federal outlays for research, development, and R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of Transportation, total ...	477.8	287.0	337.3	363.7	339.2	335.7	363.5	377.3	372.4	391.0	432.1
Federal Aviation Admin	340.1	107.1	88.6	115.8	113.7	114.6	102.8	100.2	111.4	109.7	125.9
Federal Highway Admin	28.5	23.3	23.5	33.5	26.8	42.9	53.0	52.9	48.9	53.4	59.1
Federal Railroad Admin	25.6	22.5	41.4	38.3	51.1	48.5	57.3	62.4	58.0	63.5	55.0
Nat'l Highway Traffic Safety Admin	22.9	34.8	47.6	44.4	36.2	33.8	49.5	68.5	53.6	60.3	60.8
Urban Mass Trans Admin	19.1	60.8	72.2	57.8	60.9	48.2	52.1	52.5	50.5	58.9	61.9
Other Transportation 7/.....	41.7	38.6	63.9	73.9	50.6	47.7	48.8	40.8	49.9	45.2	69.4
Dept of the Treasury	.8	1.3	1.0	1.1	1.7	3.8	5.0	9.9	9.6	10.9	10.8
Department of Veterans Affairs ..	67.9	76.1	82.8	85.7	97.0	109.5	112.8	123.9	123.1	138.6	144.3
Other Agencies											
Atomic Energy Commission	1,604.9	1,551.3	1,624.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Agency for International Development 8/.....	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	114.3	166.1
Energy Rsch & Development Admin 9/.....	N/A	N/A	N/A	1,825.0	2,246.6	2,553.7	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	101.0	133.8	147.7	172.2	218.6	265.6	283.0	312.5	388.9	384.7	344.3
Nat'l Aeronautics & Space Admin .	3,381.9	3,422.9	3,315.2	3,256.2	3,266.5	3,669.0	3,449.1	3,432.1	3,395.2	3,605.7	3,705.5
National Science Foundation	373.9	435.0	470.9	584.7	600.4	669.1	674.7	738.6	804.6	848.2	905.0
Nuclear Regulatory Commission ...	N/A	N/A	N/A	46.1	58.5	76.9	107.8	131.7	145.4	182.8	216.0
Office of Economic Opportunity ..	129.5	81.2	76.9	-	-	N/A	N/A	N/A	N/A	N/A	N/A
All other agencies	73.7	41.1	50.2	111.3	117.9	100.0	109.0	150.5	148.1	187.5	203.7

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-143B. Federal outlays for research, development, and R&D plant, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	35,766.8	37,959.4	41,330.1	45,860.3	52,090.3	53,214.2	56,556.6	61,476.4	64,276.5	65,264.0	69,728.5
Departments											
Dept of Agriculture, total	828.4	858.8	893.5	923.2	953.0	994.0	1,049.7	1,129.8	1,196.7	1,293.8	1,314.2
Agricultural Cooperative Svc 1/	1.7	2.1	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.9	3.0
Agricultural Marketing Svc 2/	1.5	.6	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.0	3.2
Agricultural Research Svc 3/	436.1	469.4	479.3	492.9	500.5	526.5	540.4	579.7	603.4	640.7	674.7
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	4.2	4.9	6.2	7.7	14.0	8.7	11.7
Cooperative State Rsch Svc 4/	219.8	220.4	239.5	243.6	256.5	274.1	294.8	336.9	361.9	398.3	375.7
Economic Research Svc	37.0	36.8	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.8	60.6
Federal Grain Inspection Service	-	-	-	.9	1.0	1.2	1.0	1.1	.6	.8	.8
Forest Service	116.0	111.1	109.2	113.8	113.5	120.7	138.0	136.4	144.5	168.7	165.1
Human Nutrition Info Service	3.8	5.8	7.9	7.2	10.6	9.6	8.2	8.4	9.0	10.0	12.7
Off of Internat'l Coop & Dev't	4.6	4.1	3.6	5.8	7.5	5.1	5.0	2.5	4.3	4.0	3.8
Off of Transportation 2/	.9	.8	1.0	1.3	1.0	1.0	1.1	-	-	-	-
Nat'l Agricultural Stat Svc	7.0	7.6	8.2	8.4	8.0	3.5	3.6	2.8	2.7	2.9	3.0
Department of Commerce, total	286.5	335.2	336.3	377.8	380.1	311.1	389.4	403.2	441.5	528.8	544.7
Nat'l Inst of Standards & Tech	87.6	94.0	103.3	106.5	109.2	102.1	111.4	121.5	120.3	173.4	188.5
Nat'l Oceanic & Atmos Admin	174.1	222.0	214.7	249.1	248.7	189.2	263.5	269.1	306.7	340.8	340.3
Other Commerce 5/	24.8	19.2	18.2	22.2	22.1	19.8	14.5	12.6	14.4	14.6	15.9
Department of Defense, total	18,482.9	21,373.5	22,999.4	27,143.7	32,491.1	33,611.8	34,573.0	36,869.1	37,140.0	35,491.8	37,581.4
Department of the Army	3,414.4	3,848.5	4,017.4	4,230.0	4,278.5	5,009.7	4,899.6	5,241.3	5,797.1	5,470.6	6,036.4
Department of the Navy	5,394.7	6,023.5	6,859.8	8,304.9	9,939.8	9,422.1	9,081.9	9,559.5	9,453.5	9,156.0	8,719.6
Department of the Air Force	8,209.1	9,640.9	10,849.7	12,263.7	14,133.1	14,101.0	14,774.5	15,390.5	14,888.1	13,359.5	14,598.3
Defense agencies	1,420.0	1,817.3	1,217.8	2,290.0	4,068.2	4,995.8	5,690.3	6,501.3	6,853.6	7,305.6	8,002.0
Test & Evaluation, Deputy Under Secretary Defense	44.8	43.3	54.7	55.1	71.6	78.8	119.6	145.0	115.8	177.7	214.8
Director, Operational Test and Evaluation	N/A	N/A	N/A	N/A	-	4.4	7.2	31.6	32.0	22.3	10.3
Department of Education	150.1	111.5	181.3	95.7	125.3	138.3	142.9	155.7	150.7	185.0	217.9
Department of Energy	5,785.4	5,641.9	5,656.4	5,803.0	5,381.7	5,432.7	5,743.7	6,039.0	6,365.3	6,753.6	7,479.6
Dept of Hlth & Human Srvcs, total	4,052.1	4,118.6	4,484.9	5,049.6	5,531.4	5,751.0	6,923.2	7,773.4	8,363.8	8,892.3	9,432.8
Alcohol, Drug Abuse & Mental Hlth Admin	292.0	289.8	276.1	349.8	396.6	476.1	554.8	695.7	842.7	957.2	1,022.2
National Institutes of Health	3,475.0	3,562.9	3,981.1	4,446.3	4,867.2	4,985.2	6,060.2	6,699.0	7,181.1	7,419.2	7,872.3
Other HHS	285.0	265.8	227.7	253.4	267.6	289.6	308.2	378.7	340.1	515.9	538.3
Dept of Housing & Urban Development	37.0	30.9	24.9	18.6	13.9	19.7	14.9	20.7	21.7	19.3	29.7
Dept of the Interior, total	394.9	412.7	435.9	417.0	445.4	394.7	419.6	485.3	503.0	586.0	573.5
Bureau of Mines	105.2	102.0	111.4	100.4	131.0	91.2	87.6	92.6	96.7	110.8	93.1
Geological Survey	150.1	171.4	228.4	230.8	226.5	211.2	238.6	300.9	301.3	345.8	341.1
Other Interior	139.7	139.3	96.1	85.8	87.9	92.4	93.4	91.7	105.0	129.3	139.3
Department of Justice, total	36.6	27.6	26.5	32.7	32.1	39.0	48.1	36.0	38.2	41.2	45.2
Office of Justice Programs	30.4	21.1	19.6	20.1	19.2	22.4	21.6	22.5	24.0	24.3	25.9
Other Justice	6.2	6.5	6.9	12.6	13.0	16.6	26.5	13.4	14.2	17.0	19.3
Department of Labor	29.4	16.8	14.1	13.7	10.9	20.3	31.8	28.9	45.2	56.0	52.2
Department of State, total	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	8.9	9.0

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-143B. Federal outlays for research, development, and R&D plant, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Dept of Transportation, total ...	360.0	282.3	357.5	430.2	445.2	347.7	332.1	291.5	287.3	392.3	437.7
Federal Aviation Admin	110.9	99.5	167.5	283.7	317.6	190.5	190.2	153.5	185.5	246.8	263.4
Federal Highway Admin	42.5	32.5	51.1	47.5	46.1	76.3	60.1	76.5	44.0	68.0	85.6
Federal Railroad Admin	25.6	18.5	14.7	16.2	15.4	10.9	10.6	7.0	7.0	24.2	23.9
Nat'l Highway Traffic Safety Admin	60.2	51.1	53.2	28.0	19.1	28.9	45.2	28.5	16.9	17.9	24.9
Urban Mass Trans Admin	69.8	36.5	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.6	3.5
Other Transportation 5/.....	51.0	44.2	39.8	36.2	38.2	31.8	24.7	23.9	31.6	32.8	36.4
Dept of the Treasury	13.6	15.6	13.6	24.3	23.0	26.4	25.8	23.5	25.2	28.8	32.1
Department of Veterans Affairs ..	140.7	164.7	193.6	222.7	185.1	198.8	201.9	186.4	219.0	219.0	222.2
Other Agencies											
Agency for International Development 6/.....	188.6	225.2	207.2	233.0	255.5	263.2	229.1	279.1	347.9	382.4	179.5
Environmental Protection Agency .	336.2	312.5	266.1	274.8	306.9	325.9	340.0	343.2	388.5	417.8	450.4
Nat'l Aeronautics & Space Admin .	3,252.9	2,646.2	3,730.6	3,217.1	3,730.6	3,564.3	4,230.4	5,506.1	6,762.2	7,695.2	8,616.5
National Science Foundation	1,015.1	994.7	1,151.0	1,250.0	1,468.1	1,459.9	1,550.7	1,613.4	1,563.0	1,830.3	2,020.4
Nuclear Regulatory Commission ...	208.6	244.0	198.6	161.1	136.0	124.4	113.5	113.2	223.0	226.0	243.2
All other agencies	166.2	145.3	157.3	170.5	173.6	188.1	192.5	174.4	189.5	215.5	246.1

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

6/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-144A. Federal outlays for research and development, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	15,358.0	16,162.7	16,850.4	17,592.5	18,721.2	20,220.2	22,082.7	24,020.1	25,838.2	29,154.2	32,459.1
Departments											
Dept of Agriculture, total	311.3	348.1	348.5	375.6	417.7	460.0	515.3	553.8	608.7	659.8	743.4
Agricultural Cooperative Svc 1/	.9	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	1.6	1.3
Agricultural Marketing Svc 2/	N/A	-	-	-	-	-	-	-	.9	1.3	1.2
Agricultural Research Svc 3/	177.7	200.9	194.7	207.1	228.8	242.0	275.6	301.9	312.9	347.5	390.1
Cooperative State Rsch Svc 4/	67.8	73.1	81.8	85.0	95.5	104.2	120.1	134.9	156.6	174.2	199.0
Econ, Stat & Coop Svc 5/	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A
Economic Research Svc	14.8	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	38.0
Economics & Statistics Svc 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A
Forest Service	49.1	55.2	54.7	63.3	68.6	86.9	89.0	84.6	102.2	97.0	98.6
National Agricultural Library	.4	.3	.3	.2	.1	.0	-	-	-	-	-
Off of Internat'l Coop & Dev't	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	6.4	6.9
Off of Transportation 2/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.5	.8	.9
Nat'l Agricultural Stat Svc	-	-	-	-	-	-	N/A	N/A	N/A	N/A	7.5
Department of Commerce, total	118.2	164.1	180.4	176.3	214.1	225.5	232.5	269.2	305.2	355.9	345.5
Nat'l Inst of Standards & Tech	31.8	33.7	35.6	40.7	45.3	48.0	52.6	58.1	63.4	76.8	83.9
Nat'l Oceanic & Atmos Admin	65.4	107.0	110.9	101.6	119.8	129.4	131.2	162.5	190.1	206.7	208.1
Other Commerce 7/	21.0	23.5	33.9	34.0	49.0	48.1	48.8	48.6	51.7	72.3	53.5
Department of Defense, total	7,561.5	8,138.8	8,440.6	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	11,497.3	13,501.4	15,754.5
Department of the Army	1,637.9	1,859.4	1,996.4	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,534.1	2,845.3	3,114.8
Department of the Navy	2,449.4	2,462.1	2,466.4	2,668.3	3,078.5	3,260.8	3,519.0	3,870.3	3,873.5	4,417.0	4,824.7
Department of the Air Force	2,975.9	3,362.6	3,533.1	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,263.1	5,220.6	6,626.6
Defense agencies	493.8	450.7	438.3	467.4	536.2	500.3	603.3	548.5	798.3	978.2	1,152.6
Defense Civil Preparedness Agency	4.5	4.0	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A
Test & Evaluation, Deputy Under Secretary Defense	-	-	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	136.5	120.9	111.8
Department of Energy	N/A	N/A	N/A	N/A	N/A	N/A	3,166.0	3,931.7	4,303.3	4,697.5	5,041.4
Dept of Hlth, Educ, & Welfare, total	1,282.5	1,516.7	1,815.7	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Hlth Admin	N/A	N/A	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	195.0	236.9	-	-	-	-	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A
National Institutes of Health	905.8	1,087.4	1,333.3	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	N/A	N/A	N/A
Office of Education	111.2	94.9	94.0	62.8	53.1	56.8	30.3	25.8	N/A	N/A	N/A
Other HEW	70.5	97.5	240.0	232.8	229.5	224.5	255.8	281.4	N/A	N/A	N/A
Dept of Hlth & Human Srvcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,099.3	3,477.2	3,954.9
Alcohol, Drug Abuse & Mental Hlth Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184.4	217.9	250.9
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,641.0	2,953.2	3,350.2
Other HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	273.9	306.1	353.8
Dept of Housing & Urban Development	40.5	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1
Dept of the Interior, total	175.9	208.2	237.4	192.8	263.6	319.0	299.5	332.3	395.3	422.7	432.8
Bureau of Mines	50.0	66.2	68.6	66.7	82.7	113.7	100.7	104.1	117.1	128.4	106.9
Geological Survey	41.9	50.2	62.1	68.3	95.2	115.7	112.2	128.7	144.2	145.2	168.2
Other Interior	84.1	91.9	106.8	57.9	85.7	89.6	86.6	99.4	134.0	149.2	157.7
Department of Justice, total	9.9	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1
Office of Justice Programs	7.8	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2
Other Justice	2.0	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9
Department of Labor	22.1	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6
Department of State, total	28.5	18.4	20.2	24.5	28.4	25.9	40.1	57.4	3.2	2.2	1.8
Agency for Internat'l Devmt 8/	28.2	17.9	18.7	23.0	27.1	24.3	37.8	54.5	N/A	N/A	N/A
Other State	.4	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-144A. Federal outlays for research and development, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of Transportation, total ...	468.2	273.7	312.3	328.4	324.5	323.6	346.0	364.1	356.2	374.7	415.9
Federal Aviation Admin	339.3	106.1	88.1	115.2	110.9	112.7	99.8	99.2	101.9	104.2	119.8
Federal Highway Admin	28.3	22.8	23.4	33.1	26.4	42.5	52.6	52.5	48.7	53.1	56.3
Federal Railroad Admin	21.0	16.7	31.8	34.4	42.0	40.5	45.6	51.5	51.7	53.2	48.2
Nat'l Highway Traffic Safety Admin	22.9	34.8	47.6	44.4	36.2	33.8	49.3	68.3	53.4	60.1	60.3
Urban Mass Trans Admin	16.6	56.9	69.0	54.1	59.1	46.9	50.4	52.5	50.5	58.9	61.9
Other Transportation 7/.....	40.0	36.4	52.4	47.1	50.0	47.2	48.3	40.1	49.9	45.2	69.4
Dept of the Treasury	.8	1.3	1.0	1.1	1.7	3.7	4.9	9.9	9.5	10.9	10.8
Department of Veterans Affairs ..	60.8	66.5	75.0	80.4	94.8	97.7	106.9	114.3	120.3	134.4	137.8
Other Agencies											
Atomic Energy Commission	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Agency for International Development 8/.....	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	107.8	159.9
Energy Rsch & Development Admin 9/.....	N/A	N/A	N/A	1,488.9	1,835.4	2,189.5	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	100.6	133.1	144.7	161.3	207.2	259.0	281.3	310.3	386.5	384.7	344.3
Nat'l Aeronautics & Space Admin .	3,337.8	3,372.5	3,270.5	3,181.1	3,181.2	3,548.1	3,344.2	3,307.9	3,262.5	3,465.4	3,558.6
National Science Foundation	334.7	417.5	427.8	570.7	571.3	619.0	649.6	700.5	775.2	830.6	892.3
Nuclear Regulatory Commission ...	N/A	N/A	N/A	42.3	55.8	73.3	101.7	125.4	137.5	175.4	208.7
Office of Economic Opportunity ..	129.5	81.2	76.9	-	-	N/A	N/A	N/A	N/A	N/A	N/A
All other agencies	72.4	39.8	47.9	105.5	104.7	84.0	104.9	128.1	136.5	183.8	202.9

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-144B. Federal outlays for research and development, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	34,390.7	36,659.4	39,691.0	44,171.4	50,609.1	51,611.7	54,739.4	59,450.4	62,246.8	62,783.4	66,719.9
Departments											
Dept of Agriculture, total	807.2	826.0	864.3	889.0	918.0	922.9	971.2	1,037.5	1,072.5	1,147.4	1,192.9
Agricultural Cooperative Svc 1/	1.7	2.1	2.2	2.9	2.6	2.8	2.7	2.8	2.7	2.9	3.0
Agricultural Marketing Svc 2/	1.5	.6	1.7	1.3	1.7	1.4	1.6	1.5	2.7	3.0	3.2
Agricultural Research Svc 3/	417.5	438.7	454.3	466.2	468.1	463.2	482.1	528.0	548.1	572.7	604.8
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	4.2	4.9	5.6	7.4	8.0	8.7	9.2
Cooperative State Rsch Svc 4/	219.8	219.6	235.7	236.7	254.8	267.1	277.3	298.3	303.9	324.3	330.4
Economic Research Svc	37.0	36.8	40.9	45.1	46.0	43.2	47.2	50.0	50.7	53.8	60.6
Federal Grain Inspection Service	-	-	-	.9	1.0	1.2	1.0	1.1	.6	.8	.8
Forest Service	113.2	109.8	108.8	113.1	112.5	119.9	135.8	134.7	139.6	164.3	161.5
Human Nutrition Info Service	3.8	5.8	7.9	7.2	10.6	9.6	8.2	8.4	9.0	10.0	12.7
Off of Internat'l Coop & Dev't	4.6	4.1	3.6	5.8	7.5	5.1	5.0	2.5	4.3	4.0	3.8
Off of Transportation 2/	.9	.8	1.0	1.3	1.0	1.0	1.1	-	-	-	-
Nat'l Agricultural Stat Svc	7.0	7.6	8.2	8.4	8.0	3.5	3.6	2.8	2.7	2.9	3.0
Department of Commerce, total	285.4	334.5	327.0	373.6	372.6	307.0	378.6	394.0	426.8	507.9	521.5
Nat'l Inst of Standards & Tech	86.6	93.3	94.1	102.2	103.3	100.0	101.3	113.0	112.3	157.9	168.4
Nat'l Oceanic & Atmos Admin	174.1	222.0	214.7	249.1	247.2	187.1	263.0	268.6	300.1	335.5	337.2
Other Commerce 5/	24.8	19.2	18.2	22.2	22.1	19.8	14.2	12.4	14.4	14.6	15.9
Department of Defense, total	18,251.2	21,105.8	22,619.3	26,742.0	32,210.5	33,254.4	34,156.8	36,453.4	36,703.2	35,037.4	37,120.8
Department of the Army	3,400.9	3,827.0	3,983.0	4,176.6	4,223.5	4,949.0	4,837.8	5,201.6	5,750.2	5,432.4	6,019.5
Department of the Navy	5,269.4	5,886.8	6,709.4	8,161.1	9,809.1	9,357.1	9,003.1	9,475.0	9,352.3	9,058.8	8,617.3
Department of the Air Force	8,141.4	9,537.2	10,658.5	12,063.9	14,044.0	13,906.8	14,567.0	15,190.8	14,687.9	13,102.7	14,304.6
Defense agencies	1,394.8	1,811.5	1,213.6	2,285.2	4,062.4	4,958.4	5,622.1	6,409.5	6,765.0	7,243.5	7,954.4
Test & Evaluation, Deputy Under Secretary Defense	44.8	43.3	54.7	55.1	71.6	78.8	119.6	145.0	115.8	177.7	214.8
Director, Operational Test and Evaluation	N/A	N/A	N/A	N/A	-	4.4	7.2	31.6	32.0	22.3	10.3
Department of Education	150.1	111.5	181.3	95.7	124.5	122.6	131.8	153.4	147.9	179.6	214.2
Department of Energy	4,842.1	4,817.5	4,740.3	4,947.7	4,655.8	4,711.3	4,964.7	5,200.6	5,508.4	5,862.6	6,304.6
Dept of Hlth & Human Srvcs, total	4,015.3	4,092.0	4,450.3	5,007.0	5,498.7	5,719.5	6,892.5	7,717.4	8,308.7	8,779.9	9,272.5
Alcohol, Drug Abuse & Mental Hlth Admin	291.7	288.8	272.0	348.4	396.1	475.5	554.8	695.7	842.7	957.2	1,022.2
National Institutes of Health	3,439.6	3,539.5	3,960.6	4,420.1	4,845.0	4,956.2	6,031.2	6,645.0	7,127.0	7,310.9	7,721.5
Other HHS	284.0	263.7	217.7	238.4	257.6	287.7	306.5	376.7	339.1	511.8	528.8
Dept of Housing & Urban Development	37.0	30.9	24.9	18.6	13.9	19.7	14.9	20.7	21.7	19.3	29.7
Dept of the Interior, total	393.6	410.3	430.7	412.8	439.3	390.0	414.6	478.4	492.5	575.4	568.7
Bureau of Mines	105.0	101.9	111.3	100.4	131.0	91.2	87.6	90.6	93.6	110.2	92.5
Geological Survey	150.1	169.9	227.2	229.9	225.6	210.4	237.9	299.5	300.0	344.1	339.3
Other Interior	138.5	138.5	92.1	82.5	82.7	88.4	89.1	88.3	98.8	121.1	136.9
Department of Justice, total	36.6	27.6	26.5	32.7	32.1	38.7	48.1	36.0	38.2	41.2	45.2
Office of Justice Programs	30.4	21.1	19.6	20.1	19.2	22.4	21.6	22.5	24.0	24.3	25.9
Other Justice	6.2	6.5	6.9	12.6	13.0	16.3	26.5	13.4	14.2	17.0	19.3
Department of Labor	29.4	16.8	14.1	13.7	10.9	20.3	31.8	28.9	45.2	56.0	52.2
Department of State, total	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	8.9	9.0

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-1448. Federal outlays for research and development, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Dept of Transportation, total ...	347.0	272.4	344.6	416.1	429.8	336.6	321.0	278.6	270.6	373.0	410.8
Federal Aviation Admin	106.6	90.3	155.1	270.1	303.3	180.1	179.6	141.0	169.2	229.5	238.0
Federal Highway Admin	42.5	32.5	51.1	47.5	45.5	76.0	60.1	76.5	44.0	68.0	85.6
Federal Railroad Admin	17.4	18.3	14.7	16.2	15.4	10.9	10.3	6.7	7.0	22.7	22.8
Nat'l Highway Traffic Safety Admin	59.7	50.6	52.7	27.5	18.6	28.4	45.2	28.5	16.9	17.9	24.9
Urban Mass Trans Admin	69.8	36.5	31.2	18.6	8.8	9.4	1.4	2.0	2.3	2.6	3.5
Other Transportation 5/.....	51.0	44.2	39.8	36.2	38.2	31.8	24.4	23.9	31.2	32.4	36.0
Dept of the Treasury	13.6	15.5	13.5	24.2	22.9	26.3	25.7	23.4	25.1	28.7	32.0
Department of Veterans Affairs ..	137.7	154.1	189.0	215.1	181.2	195.1	197.3	184.9	206.6	212.5	216.7
Other Agencies											
Agency for International Development 6/.....	178.3	212.8	195.8	220.3	241.5	248.7	216.6	279.1	334.0	367.1	154.0
Environmental Protection Agency .	336.2	312.5	266.1	274.8	306.9	325.9	340.0	343.2	388.5	417.8	450.4
Nat'l Aeronautics & Space Admin .	3,140.7	2,538.0	3,538.7	2,970.3	3,431.5	3,250.4	3,831.7	4,974.8	6,324.3	6,973.6	7,766.9
National Science Foundation	1,013.6	991.8	1,108.0	1,186.0	1,410.7	1,410.0	1,494.0	1,556.7	1,524.9	1,765.9	1,896.9
Nuclear Regulatory Commission ...	208.6	244.0	198.6	161.1	136.0	124.4	113.5	113.2	223.0	226.0	243.2
All other agencies	165.6	143.9	156.5	169.4	170.8	185.1	190.4	171.4	180.0	203.3	217.7

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

6/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-145A. Federal outlays for R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	612.7	564.4	638.4	704.6	829.7	800.6	800.2	1,107.8	1,202.8	1,481.7	1,606.7
Departments											
Dept of Agriculture, total	7.6	9.7	8.6	5.9	7.9	8.8	22.5	18.6	21.7	27.7	39.0
Department of Commerce, total	4.7	4.1	5.8	11.9	10.5	7.8	5.7	3.5	1.9	4.8	1.3
Department of Defense, total	144.5	158.4	157.0	164.9	152.9	144.2	125.6	312.6	235.8	204.7	238.5
Department of the Army	32.7	30.4	46.0	31.4	30.0	20.6	14.8	6.8	2.1	7.6	8.9
Department of the Navy	28.4	39.4	32.5	47.5	47.8	59.3	63.6	49.1	52.9	90.9	92.2
Department of the Air Force	49.7	63.6	55.4	68.2	54.5	57.1	40.0	250.1	164.9	103.0	130.0
Defense agencies	33.7	25.0	23.0	17.7	20.6	7.2	7.2	6.6	15.9	3.2	7.4
Department of Energy, total	N/A	N/A	N/A	N/A	N/A	N/A	427.1	481.3	653.5	962.8	1,084.5
Dept of Hlth, Educ, & Welfare, total	44.3	37.8	62.7	33.3	85.9	52.4	45.6	68.0	N/A	N/A	N/A
Dept of Hlth & Human Srvcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	73.4	76.9	42.6
Dept of the Interior, total	7.0	4.8	16.7	2.0	2.4	.8	4.4	7.7	9.0	8.7	4.1
Department of State, total	1.0	3.3	.6	.2	.3	1.2	4.0	.1	-	-	-
Dept of Transportation, total	9.6	13.3	25.0	35.4	14.7	12.1	17.5	13.2	16.2	16.3	16.2
Dept of the Treasury, total	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
Department of Veterans Affairs	7.0	9.6	7.8	5.3	2.2	11.8	5.9	9.7	2.8	4.2	6.5
Other Agencies											
Atomic Energy Commission	302.0	253.6	261.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Agency for International Development 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.6	6.2
Energy Rsch & Development Admin 2/	N/A	N/A	N/A	336.1	411.2	364.2	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency	.4	.7	3.0	10.9	11.3	6.7	1.6	2.2	2.4	-	-
Nat'l Aeronautics & Space Admin	44.1	50.3	44.7	75.1	85.3	120.9	105.0	124.3	132.7	140.3	146.9
National Science Foundation	39.2	17.5	43.1	14.0	29.1	50.1	25.1	38.0	29.4	17.6	12.7
Nuclear Regulatory Commission	N/A	N/A	N/A	3.8	2.6	3.5	6.1	6.2	8.0	7.4	7.3
All other agencies	1.3	1.3	2.3	5.8	13.2	16.0	4.0	22.3	11.5	3.7	.8

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

2/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-145B. Federal outlays for R&D plant, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	1,376.1	1,299.9	1,639.2	1,688.9	1,481.2	1,602.4	1,817.2	2,026.1	2,029.7	2,480.6	3,008.6
Departments											
Dept of Agriculture, total	21.3	32.8	29.2	34.3	35.0	71.1	78.5	92.3	124.2	146.5	121.3
Department of Commerce, total ...	1.0	.7	9.2	4.3	7.4	4.2	10.9	9.1	14.7	20.8	23.2
Department of Defense, total	231.7	267.7	380.1	401.7	280.6	357.3	416.2	415.6	436.8	454.4	460.6
Department of the Army	13.5	21.5	34.4	53.4	55.0	60.7	61.8	39.7	46.8	38.2	16.9
Department of the Navy	125.3	136.7	150.3	143.8	130.7	65.0	78.8	84.5	101.2	97.2	102.4
Department of the Air Force ...	67.7	103.7	191.2	199.8	89.1	194.3	207.5	199.7	200.2	256.8	293.7
Defense agencies	25.2	5.8	4.2	4.7	5.8	37.4	68.1	91.8	88.6	62.2	47.6
Department of Education, total...	-	-	-	-	.8	15.8	11.1	2.3	2.8	5.4	3.7
Department of Energy, total	943.3	824.5	916.1	855.3	725.8	721.3	779.0	838.3	856.9	891.0	1,174.9
Dept of Hlth & Human Srvcs, total	36.8	26.5	34.6	42.6	32.7	31.5	30.7	56.0	55.1	112.4	160.3
Dept of the Interior, total	1.3	2.4	5.2	4.2	6.1	4.8	5.1	6.8	10.5	10.6	4.9
Dept of Transportation, total ...	13.0	9.9	12.9	14.1	15.5	11.2	11.1	12.9	16.7	19.3	26.9
Dept of the Treasury, total	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Department of Veterans Affairs ..	2.9	10.6	4.6	7.6	3.9	3.7	4.6	1.5	12.4	6.5	5.5
Other Agencies											
Agency for International Development 1/.....	10.3	12.3	11.4	12.8	14.0	14.4	12.6	-	13.9	15.3	25.6
Nat'l Aeronautics & Space Admin .	112.2	108.1	191.9	246.8	299.1	313.9	398.7	531.3	437.9	721.6	849.7
National Science Foundation	1.5	2.9	43.0	64.0	57.3	49.9	56.7	56.7	38.1	64.4	123.5
All other agencies	.6	1.5	.8	1.2	2.8	3.0	2.1	3.0	9.5	12.3	28.5

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-146A. Federal obligations for research, development, and R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	16,153.8	17,098.0	17,574.5	18,176.5	19,859.5	21,616.4	24,817.6	27,140.8	29,620.6	31,386.1	34,589.6
Departments											
Department of Agriculture, total	310.0	357.4	369.4	387.5	427.9	478.6	559.9	645.9	685.7	744.5	794.7
Agricultural Cooperative Svc 1/	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7
Agricultural Marketing Svc 2/	N/A	-	-	-	-	-	-	-	1.0	1.3	1.1
Agricultural Research Svc 3/	177.5	198.0	201.2	208.3	221.6	255.3	310.1	347.5	365.0	405.0	411.6
Cooperative State Rsch Svc 4/	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4
Econ, Stat & Coop Svc 5/	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5	-	N/A
Economic Research Service	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A
Economics & Statistics Svc 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A
Forest Service	47.1	58.7	59.6	69.6	81.5	82.8	92.1	108.3	111.0	115.2	129.3
National Agricultural Library	.4	.2	.3	.1	.0	.0	-	-	-	-	-
Off of Internat'l Cooperation & Dev	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	5.3	3.9
Office of Transportation 2/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7	.8	.9
Nat'l Agricultural Stat Svc	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	7.5
Department of Commerce, total	152.9	194.7	198.5	192.2	224.9	235.5	251.8	287.7	311.8	347.2	329.3
Bureau of the Census	4.1	3.9	1.0	1.0	1.0	2.5	2.6	3.4	3.1	3.2	3.9
Economic Development Admin	4.6	6.6	6.3	4.1	10.3	15.1	15.0	38.5	43.1	32.3	28.1
Maritime Administration 7/	24.3	22.9	25.9	25.9	23.9	21.2	19.7	20.6	20.5	19.9	N/A
Minority Business Dev Agency	-	.5	2.1	1.0	4.6	2.0	3.4	-	-	-	-
Nat'l Inst of Standards & Tech	33.8	36.6	38.9	41.1	44.6	47.9	53.9	59.1	69.3	76.4	83.0
Nat'l Fire Prevention & Control Administration	N/A	-	-	-	3.6	6.4	6.6	N/A	N/A	N/A	N/A
Nat'l Oceanic & Atmospheric Administration	83.4	120.1	119.3	117.0	135.1	139.1	147.2	163.7	171.2	203.6	202.2
Nat'l Telecomm & Info Admin	N/A	N/A	N/A	N/A	N/A	N/A	2.9	1.8	4.1	10.7	10.9
Office of Telecommunications	2.1	3.6	3.5	1.6	1.3	.9	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	-	-	-	-	-	.1	.6	-
Patent and Trademark Office	.6	.6	.6	.5	.5	.4	.5	.5	.5	.5	1.1
US Travel & Tourism Admin	-	-	.8	-	-	-	-	-	-	-	-
Department of Defense, total	7,662.7	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4	14,189.2	16,786.3
Department of the Army	1,726.0	2,103.7	2,030.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5	2,993.8	3,257.0
Department of the Navy	2,311.7	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1	4,789.3	5,103.9
Department of the Air Force	3,163.2	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1	5,319.0	7,128.8
Defense agencies	458.8	500.4	457.1	464.1	497.4	573.9	659.5	724.5	878.4	1,049.2	1,255.6
Defense Civil Preparedness Agency	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
Test & Evaluation, Deputy Under Secretary Defense	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	166.3	139.4	104.9
Department of Energy 8/	N/A	N/A	N/A	N/A	N/A	N/A	4,097.2	4,935.5	5,483.2	5,777.8	5,896.4
Dept of Hlth, Education, & Welfare, total	1,493.4	1,806.1	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A
Centers for Disease Control	N/A	N/A	38.6	44.9	42.6	49.6	55.3	60.1	N/A	N/A	N/A
Food & Drug Administration	25.6	30.4	30.4	44.0	36.6	38.0	43.7	65.0	N/A	N/A	N/A
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A	N/A	N/A
Health Resources Admin	N/A	-	52.7	55.8	43.3	38.2	7.4	5.5	N/A	N/A	N/A
Health Services Administration	N/A	N/A	13.2	12.5	17.3	17.5	17.7	18.2	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	223.5	249.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A
National Institutes of Health	1,055.3	1,321.1	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	N/A	N/A	N/A
Off of Asst Secy for Educ	-	-	-	-	.6	1.0	1.0	1.3	N/A	N/A	N/A
Off of Asst Secy for Hlth	-	-	-	-	-	-	32.2	36.2	N/A	N/A	N/A
Office of Child Development	11.2	17.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Education	132.8	130.2	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A
Off of Human Development Svcs	-	-	28.8	53.0	64.3	61.9	76.8	75.8	N/A	N/A	N/A
Office of International Health	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	29.8	26.2	23.7	20.0	30.2	N/A	N/A	N/A
Social & Rehabilitation Svc	34.1	43.8	53.5	8.9	9.6	18.6	N/A	N/A	N/A	N/A	N/A
Social Security Administration	10.9	13.6	18.5	19.4	22.6	14.4	11.2	12.9	N/A	N/A	N/A

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-146A. Federal obligations for research, development, and R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,558.4	3,810.8	3,950.9
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.4	233.5	239.7
Centers for Disease Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3	87.3	74.8
Food & Drug Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.7	76.6	72.6
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8	45.7	38.6
Health Resources Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9	5.1	5.0
Health Services Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.7	26.7	20.3
Human Development Services 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.1	49.3	73.7
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,000.8	3,211.2	3,355.5
Off of Asst Secy for Hlth 10/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.6	29.9	33.1
Office of the Secretary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.7	24.0	19.5
Social Security Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3	21.4	18.0
Dept of Housing & Urban Dev	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1
Dept of the Interior, total	200.0	232.5	265.8	194.5	307.2	339.1	319.7	374.0	410.8	418.8	430.6
Bonneville Power Admin 8/	2.9	3.2	3.0	2.5	6.1	7.1	N/A	N/A	N/A	N/A	14.4
Bureau of Land Management	.8	.8	.7	.7	.8	.7	.9	1.2	1.3	1.7	1.9
Bureau of Mines	60.3	70.9	77.5	66.1	107.6	131.3	105.3	121.1	121.3	114.4	97.4
Bureau of Reclamation	9.2	10.2	9.7	7.4	7.8	8.3	9.9	11.2	12.2	14.1	14.3
Geological Survey	41.9	51.6	67.3	66.6	106.6	110.3	117.5	133.7	145.6	146.3	169.8
Heritage Conservation & Recreation Svc	.2	.0	.0	.0	.0	.0	.0	-	-	-	-
National Park Service	1.1	1.3	1.5	2.5	8.4	9.3	7.8	7.7	8.9	8.2	10.4
Office of Coal Research	18.8	32.4	46.4	-	-	-	-	-	-	-	-
Office of the Secretary	.2	1.4	21.3	.5	1.7	1.0	4.5	1.7	1.4	2.2	1.5
Off of Surface Mining Reclamation & Enforcement	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0	7.8	5.8
Office of Water Rsch & Tech	41.4	38.3	13.3	22.8	19.5	19.0	16.0	28.0	28.0	30.0	21.8
US Fish & Wildlife Service	23.3	22.4	24.9	25.5	48.8	52.0	57.7	67.2	87.1	94.1	93.3
Department of Justice, total	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5
Drug Enforcement Admin	1.5	1.2	1.6	5.0	1.5	2.5	3.0	1.9	2.4	2.7	1.3
Fed Bureau of Investigation	1.0	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1	1.4	.7
Federal Prison System	.4	.5	.5	.5	.6	.8	1.1	3.6	3.4	2.1	2.5
Immigration & Naturalization Svc	-	-	-	-	.1	.1	.3	.4	.2	.3	.1
Office of Justice Programs	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0
Office of Legal Policy	-	-	-	-	-	-	-	1.6	1.7	1.8	.8
Department of Labor, total	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2
Bureau of Labor Statistics	3.8	4.8	1.0	1.7	1.8	1.3	1.4	1.2	.9	.9	.3
Employment Standards Admin	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2
Employment & Training Admin	16.5	15.6	14.6	16.1	15.5	17.5	16.8	86.6	120.8	121.7	52.4
Labor-Management Svcs Admin 11/	.5	.7	.9	1.2	.8	.7	3.3	2.8	3.2	2.8	1.8
Occupational Safety & Hlth Administration	.3	.2	.9	1.4	2.0	2.9	3.4	1.3	5.1	6.3	3.0
Office of the Secretary	.2	.2	1.2	2.5	2.0	1.8	.2	2.2	1.6	1.4	1.1
Pension Benefit Guaranty Corporation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.5
Department of State, total	39.0	29.2	26.6	22.9	27.9	44.5	77.6	85.4	3.2	2.2	1.8
Agency for Internat'l Dev 12/	38.6	28.6	25.1	21.4	26.7	42.9	75.3	82.6	N/A	N/A	N/A
Departmental funds	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8
Dept of Transportation, total	508.0	336.3	348.9	383.2	324.8	308.7	377.1	422.4	392.7	384.5	434.5
Coast Guard	23.2	39.0	44.8	26.6	16.5	12.8	19.5	24.4	21.1	18.0	26.3
Federal Aviation Admin	347.4	102.4	81.0	125.4	109.0	100.1	106.4	111.5	120.4	108.8	128.9
Federal Highway Administration	27.1	20.8	23.7	41.2	45.1	29.3	55.9	52.1	53.5	58.3	51.2
Federal Railroad Admin	25.3	36.6	46.9	37.4	39.4	60.5	58.5	65.7	56.1	56.4	46.1
Maritime Administration 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.2
Nat'l Highway Traffic Safety Administration	26.7	50.0	54.6	53.6	34.0	31.4	47.2	66.5	56.8	63.8	66.4
Office of the Secretary	15.3	23.6	23.6	29.7	31.3	25.8	28.0	31.7	11.7	10.8	10.1
Rsch & Special Programs Admin	N/A	N/A	N/A	N/A	N/A	N/A	-	.9	15.0	14.0	13.1
Urban Mass Trans Admin	43.0	63.9	74.4	69.2	49.4	48.8	61.6	69.6	58.0	54.4	78.2
Dept of the Treasury, total	.8	1.3	1.0	1.1	1.7	3.8	4.9	9.9	9.6	12.1	11.4
Bureau of Alcohol, Tobacco, & Firearms	N/A	-	-	-	-	-	1.1	2.0	2.5	1.6	.3
Bureau of Engraving & Printing	.8	1.3	1.0	1.1	1.7	2.8	2.5	3.7	2.1	2.3	2.7
Internal Revenue Service	-	-	-	-	-	-	-	2.4	3.6	4.0	4.2
Office of Protective Research	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.4	.6
United States Customs Service	-	-	-	-	-	1.1	1.3	1.8	1.4	3.9	3.5
Department of Veterans Affairs	77.9	71.3	84.6	86.9	97.0	109.5	112.9	118.1	132.1	137.8	159.2

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-146A. Federal obligations for research, development, and R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Other Agencies											
Action	0.1	-	-	0.2	0.2	0.1	0.5	1.6	1.6	-	-
Advisory Comm on Intergov'tl Relations	.5	0.7	0.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2
Agency For International Dev 12/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112.9	155.6	142.2
Appalachian Regional Commission .	3.0	-	-	-	-	.7	.7	.5	.9	.8	.4
Atomic Energy Commission	1,615.2	1,544.4	1,712.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civil Service Commission	.6	1.0	2.4	3.1	4.4	4.0	3.9	N/A	N/A	N/A	N/A
Community Services Admin	N/A	N/A	N/A	21.7	23.1	10.2	24.0	24.3	20.7	30.3	18.3
Consumer Product Safety Comm	N/A	-	.3	4.3	7.9	5.8	6.7	4.1	6.6	6.2	.5
Energy Rsch & Development Admin 13/	N/A	N/A	N/A	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	137.8	123.0	205.1	170.5	259.7	265.4	297.6	389.3	412.5	345.0	325.7
Federal Communications Comm	.6	.8	1.1	.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8
Fed Emergency Management Agency .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0	12.6	11.8	11.6
Federal Energy Administration	N/A	N/A	N/A	-	1.3	3.0	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 14/.	.4	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0
Federal Trade Commission	.4	.6	.7	.9	.9	.9	1.1	1.4	1.5	3.0	1.1
General Services Admin	.2	.3	.5	1.8	1.8	1.1	.9	2.7	.5	.2	.6
International Trade Commission ..	-	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4
Interstate Commerce Commission ..	-	-	-	-	-	.1	.1	.3	.2	.1	-
Library of Congress	2.5	2.3	2.6	2.2	2.6	3.0	3.8	4.9	5.9	6.9	4.9
Nat'l Aeronautics & Space Admin .	3,298.2	3,202.5	3,130.2	3,100.5	3,207.1	3,529.0	3,288.9	3,495.6	3,725.9	3,393.2	3,708.9
National Science Foundation	364.8	473.5	537.0	568.1	618.1	661.8	724.1	788.5	838.1	900.5	976.2
Nuclear Regulatory Commission	N/A	N/A	N/A	46.1	67.2	98.1	119.4	140.8	157.4	190.4	227.3
Office of Economic Opportunity ..	134.0	92.7	87.8	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Office of Emergency Preparedness	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Personnal Management ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.0	6.8	8.4
Office of Science and Technology	2.0	2.0	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Telecomm Policy	.2	1.2	.6	.3	4.1	4.6	-	-	N/A	N/A	N/A
Postal Service	40.4	-	-	-	-	-	-	-	-	-	-
Small Business Administration	-	-	-	-	.2	.1	.5	-	-	-	-
Smithsonian Institution	15.1	21.3	24.1	25.2	25.2	26.2	29.8	35.1	37.9	41.9	45.3
Spec Action Off for Drug Abuse Prevention	N/A	-	12.0	11.1	3.8	-	N/A	N/A	N/A	N/A	N/A
Tennessee Valley Authority	9.9	11.6	18.8	22.9	28.8	28.9	30.2	53.4	89.2	80.7	69.3
US Arms Control & Disarmament Agency	1.7	1.9	2.0	1.1	1.0	1.4	2.2	3.6	3.5	3.8	2.4
US Information Agency 15/	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.5

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

10/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

13/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

15/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-1468. Federal obligations for research, development, and R&D plant, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	37,822.4	40,009.6	44,012.1	50,180.4	52,951.2	57,099.0	58,825.9	63,570.9	65,950.9	66,227.3	73,484.0
Departments											
Department of Agriculture, total	818.7	881.5	905.4	983.6	1,007.9	1,059.6	1,151.8	1,127.5	1,210.6	1,368.9	1,369.0
Agricultural Cooperative Svc 1/	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.9	3.0
Agricultural Marketing Svc 2/	1.2	1.4	1.5	1.7	1.6	1.5	1.6	1.5	2.7	3.0	3.2
Agricultural Research Svc 3/	426.0	466.8	480.1	498.7	532.6	522.4	561.2	578.7	589.9	668.2	705.6
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	4.2	4.9	6.2	7.7	14.0	8.7	11.7
Cooperative State Rsch Svc 4/	219.0	242.3	245.7	294.3	278.6	338.3	374.7	339.4	371.1	443.6	398.2
Economic Research Service	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	62.5
Federal Grain Inspection Svc	N/A	N/A	N/A	.9	1.0	1.2	1.0	1.1	.6	.8	.8
Forest Service	112.5	108.1	108.8	114.8	114.0	127.1	138.4	133.0	163.5	172.0	166.8
Human Nutrition Info Service	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	10.0	12.7
Off of Internat'l Cooperation & Dev	2.6	5.3	8.2	7.7	7.0	5.6	5.0	2.5	3.6	2.5	1.6
Office of Transportation 2/	.9	.8	1.0	1.2	1.0	1.1	1.1	-	-	-	-
Nat'l Agricultural Stat Svc	7.0	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	2.9	3.0
Department of Commerce, total	337.3	335.7	367.6	403.0	408.4	407.5	400.2	407.0	453.5	546.6	562.7
Bureau of the Census	3.8	4.3	4.4	4.9	4.7	4.7	5.7	4.9	6.9	5.5	5.8
Economic Development Admin	9.6	5.3	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.2	-
Nat'l Inst of Standards & Tech	89.9	95.7	104.9	104.7	106.5	100.7	118.7	124.2	131.0	191.1	206.5
Nat'l Oceanic & Atmospheric Administration	222.0	222.0	244.3	269.8	276.2	289.3	263.5	269.1	306.7	340.8	340.3
Nat'l Telecomm & Info Admin	11.3	8.3	8.7	9.1	8.4	7.8	8.1	7.8	7.7	8.0	10.0
Office of the Secretary	.0	.0	.1	1.4	.3	.0	-	-	-	-	-
Patent and Trademark Office	.7	-	-	-	-	-	-	-	-	-	-
Department of Defense, total	20,913.1	23,305.3	25,902.1	30,322.4	33,224.1	35,708.7	35,684.6	38,076.2	37,755.5	34,445.2	39,202.8
Department of the Army	3,785.2	4,024.4	4,281.7	4,623.7	4,863.3	5,085.2	4,898.8	5,704.5	5,737.2	5,609.7	6,476.7
Department of the Navy	6,001.0	6,209.9	7,779.0	9,309.5	9,747.9	9,576.8	9,588.9	9,755.7	9,646.6	9,015.2	8,502.2
Department of the Air Force	9,442.6	10,951.3	12,377.0	13,552.2	13,723.9	15,618.0	15,011.0	15,487.6	15,153.6	12,113.6	15,427.3
Defense agencies	1,643.3	2,058.1	1,405.7	2,786.3	4,771.9	5,291.8	5,957.3	6,973.3	6,996.8	7,493.8	8,507.6
Test & Evaluation, Deputy Under Secretary Defense	41.0	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	200.1	275.0
Director, Operational Test and Evaluation	N/A	N/A	N/A	N/A	-	8.4	68.2	14.4	32.6	12.8	14.1
Department of Education	128.0	111.7	115.7	126.0	127.9	153.5	145.9	161.0	178.8	214.2	224.3
Department of Energy 5/	5,622.2	5,294.4	5,526.0	5,834.4	5,430.6	5,529.4	5,951.4	6,065.6	6,546.6	7,151.2	7,834.2
Dept of Hlth & Human Svcs, total	3,965.4	4,400.4	4,861.8	5,493.2	5,695.5	6,643.0	7,177.6	7,981.4	8,513.4	9,490.3	9,902.9
Admin for Children & Families 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148.1	153.2
Agency for Health Care Policy & & Research 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49.7	95.8	34.3
Alcohol, Drug Abuse & Mental Health Administration	251.4	304.0	337.5	377.9	396.6	476.1	554.8	695.7	842.7	957.2	1,022.2
Centers for Disease Control	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	109.6	113.3
Food & Drug Administration	75.0	102.7	80.8	95.1	87.4	85.8	91.5	122.0	122.0	112.5	126.3
Health Care Financing Admin	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.8	36.0
Health Resources & Svc's Admin	10.1	13.3	18.5	19.7	12.3	9.3	10.0	10.5	11.9	10.7	10.9
Human Development Services 6/	27.2	23.4	18.3	24.3	54.6	53.0	54.0	101.7	95.4	N/A	N/A
National Institutes of Health	3,452.6	3,806.8	4,285.2	4,856.5	5,034.5	5,886.2	6,309.9	6,833.8	7,221.3	7,946.6	8,374.1
Off of Asst Secy for Hlth 7/	16.1	16.6	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.1	3.9
Office of the Secretary	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.9	5.0
Social Security Administration	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8	13.9	20.8	23.7
Dept of Housing & Urban Dev	28.9	32.1	18.2	18.5	15.3	16.3	18.4	18.0	19.3	31.5	36.4
Dept of the Interior, total	382.4	384.9	416.1	395.9	389.6	415.7	426.1	479.8	522.6	603.6	567.8
Bureau of Land Management	5.3	3.9	3.8	4.4	3.4	3.7	3.7	3.0	2.8	5.5	11.6
Bureau of Mines	94.8	88.6	108.8	89.9	84.4	88.8	91.3	101.2	102.3	112.3	82.8
Bureau of Reclamation	10.1	10.0	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.6	11.7
Geological Survey	152.6	158.4	209.9	215.7	219.5	227.6	236.9	281.1	309.7	355.3	340.9
Minerals Management Service	-	1.5	1.5	1.4	1.1	1.0	1.2	2.2	2.0	2.8	6.2
National Park Service	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	25.2	29.0
Office of the Secretary	.5	7.4	.1	1.9	1.0	-	.4	.4	.2	.7	1.1
Off of Surface Mining Reclamation & Enforcement	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	2.9
Office of Water Rsch & Tech	12.3	2.2	3.6	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	94.2	97.7	63.3	52.4	50.5	64.3	67.8	67.5	78.9	92.2	81.6
Department of Justice, total	26.7	31.4	24.5	36.0	36.5	53.5	43.1	38.2	40.5	46.1	43.0
Drug Enforcement Admin	3.2	2.5	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.1	3.3
Fed Bureau of Investigation	2.7	2.5	1.0	9.5	7.2	19.1	12.7	7.7	8.2	10.7	10.8
Federal Prison System	1.7	1.7	1.6	1.5	3.0	7.1	6.0	5.1	4.5	4.6	4.4
Immigration & Naturalization Svc	.6	.6	.6	.4	.4	.4	.3	.1	.4	.4	.4
Office of Justice Programs	18.0	23.8	19.5	22.7	23.2	24.6	21.5	22.5	25.0	28.3	24.1
Office of Legal Policy	0.4	0.3	-	0.3	0.2	0.1	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-146B. Federal obligations for research, development, and R&D plant, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Department of Labor, total	25.4	19.9	16.3	13.3	10.4	21.6	35.6	35.4	73.0	75.4	67.3
Bureau of Labor Statistics	.3	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.4	7.7
Employment Standards Admin	1.4	1.4	.9	.0	-	1.0	.1	.1	.1	.2	.1
Employment & Training Admin	16.1	9.0	6.1	3.5	3.5	5.7	14.9	15.7	53.4	53.0	39.1
Labor-Management Relations and Cooperative Programs 8/	N/A	N/A	.3	.3	.2	.3	.4	.3	-	-	-
Labor-Management Svcs Admin 8/	.7	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupational Safety & Hlth Administration	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	3.3	3.3
Office of the Secretary	.9	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.5	13.9
Pension Benefit Guaranty Corporation	1.1	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.5
Pension & Welfare Benefit Admin	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6
Department of State, total	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	8.9	9.0
Dept of Transportation, total	322.0	369.6	465.2	437.9	397.5	335.5	317.9	318.1	387.4	435.2	461.6
Coast Guard	20.0	19.6	19.5	19.0	16.9	17.0	21.4	17.9	20.6	25.0	28.8
Federal Aviation Admin	99.4	147.6	282.6	294.8	271.5	177.7	173.8	162.3	237.5	248.6	259.9
Federal Highway Administration	40.3	50.4	46.4	49.0	46.1	76.3	73.5	90.3	90.6	105.6	102.6
Federal Railroad Admin	24.5	16.5	19.2	15.0	15.4	11.2	10.4	9.0	10.2	25.5	26.3
Maritime Administration 9/	11.1	15.0	9.9	13.9	9.4	5.8	.5	-	.9	1.0	2.0
Nat'l Highway Traffic Safety Administration	55.9	52.5	57.4	28.6	22.9	28.4	28.3	29.7	16.9	21.4	23.7
Office of the Secretary	3.3	4.9	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	5.9
Rsch & Special Programs Admin	6.1	6.2	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.3	3.0
Urban Mass Trans Admin	61.4	57.0	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.6	9.4
Dept of the Treasury, total	13.4	15.6	13.9	24.4	24.2	27.0	26.2	25.7	25.7	29.4	32.0
Bureau of Engraving & Printing	4.8	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	4.8	4.7
Internal Revenue Service	5.4	8.0	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9
Office of Protective Research	-	.3	.2	.6	.5	.5	.4	.6	.5	.5	.5
United States Customs Service	3.2	3.4	1.9	2.3	4.9	7.1	9.3	6.9	6.3	5.3	8.6
United States Mint	-	-	-	.6	.3	.2	.1	2.0	.1	.9	.3
Department of Veterans Affairs	140.1	171.9	196.4	229.9	191.0	215.4	234.8	245.7	241.0	254.3	225.9
Other Agencies											
Advisory Comm on Intergov'tl Relations	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.5	1.4
Agency For International Dev 10/	205.9	232.0	245.0	227.2	258.7	224.3	210.6	279.1	347.9	335.3	369.9
Appalachian Regional Commission	.4	.2	.5	.2	.2	.1	.2	.8	.4	.3	-
Consumer Product Safety Comm	.2	.5	1.3	2.4	2.0	2.2	1.1	1.3	1.1	1.5	1.3
Environmental Protection Agency	335.1	240.7	261.2	320.4	317.3	348.2	347.4	380.3	419.7	425.4	482.9
Federal Communications Comm	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.6	1.4
Fed Emergency Management Agency	9.2	3.3	11.5	4.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 11/	2.7	3.0	2.6	2.8	3.3	3.4	3.4	N/A	N/A	N/A	N/A
Federal Trade Commission	1.2	1.4	1.6	1.7	1.8	.5	.4	.4	.5	.5	.5
General Services Admin	1.0	.5	2.4	.4	20.0	1.6	2.3	.5	18.0	30.4	-
International Trade Commission	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	10.9	11.8
Library of Congress	5.7	7.4	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.2	9.6
Nat'l Aeronautics & Space Admin	3,191.6	2,762.9	3,066.1	3,561.5	3,694.8	4,096.5	4,758.6	5,913.0	7,060.3	8,383.9	9,372.1
National Archives and Records Admin	N/A	N/A	N/A	.5	1.0	1.1	.7	.3	.4	.7	.6
National Science Foundation	976.8	1,065.2	1,248.0	1,419.1	1,406.5	1,531.8	1,589.6	1,724.0	1,728.8	1,920.2	2,241.9
Nuclear Regulatory Commission	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	229.6	250.9
Office of Thrift Supervision 11/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1	4.1	3.3	3.5
Smithsonian Institution	52.9	57.0	63.8	72.7	64.0	74.4	75.8	83.6	88.8	101.5	115.8
Tennessee Valley Authority	85.3	63.3	68.3	80.0	78.3	78.2	87.7	62.8	69.8	70.1	78.8
US Arms Control & Disarmament Agency	1.9	1.0	1.3	1.1	.9	4.6	3.4	2.8	.2	.3	2.0
US Information Agency 12/	.1	.0	1.4	.1	2.0	3.5	.4	.1	.5	.4	.7

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

7/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

8/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

9/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

10/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

11/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

12/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	15,542.5	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9
Departments											
Department of Agriculture, total	304.9	349.6	366.5	378.7	420.1	462.4	547.0	621.3	663.0	687.6	774.0
Agricultural Cooperative Svc 1/	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7
Agricultural Marketing Svc 2/..	N/A	-	-	-	-	-	-	-	1.0	1.3	1.1
Agricultural Research Svc 3/...	173.5	193.8	199.5	203.5	217.1	242.1	298.9	325.5	345.8	351.8	394.1
Cooperative State Rsch Svc 4/..	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4
Econ, Stat & Coop Svc 5/.....	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5	-	N/A
Economic Research Service	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A
Economics & Statistics Svc 6/..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A
Forest Service	46.0	55.2	58.4	65.5	78.2	79.9	90.3	105.6	107.5	111.5	126.1
National Agricultural Library .	.4	.2	.3	.1	.0	.0	-	-	-	-	-
Off of Internat'l Cooperation & Dev	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	5.3	3.9
Office of Transportation 2/....	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7	.8	.9
Nat'l Agricultural Stat Svc ...	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	7.5
Department of Commerce, total ...	143.7	187.3	190.6	180.6	215.4	228.9	244.7	283.7	309.4	342.5	327.9
Bureau of the Census	4.1	3.9	1.0	1.0	1.0	2.5	2.6	3.4	3.1	3.2	3.9
Economic Development Admin	4.6	6.6	6.3	4.1	10.3	15.1	15.0	38.5	43.1	32.3	28.1
Maritime Administration 7/.....	20.7	22.2	23.8	23.1	22.9	19.0	14.8	19.6	19.6	19.4	N/A
Minority Business Dev Agency ..	-	.5	2.1	1.0	4.6	2.0	3.4	-	-	-	-
Nat'l Inst of Standards & Tech	32.6	34.7	36.8	40.2	43.2	47.4	53.2	58.3	67.8	76.2	82.5
Nat'l Fire Prevention & Control Administration	N/A	-	-	-	3.6	6.4	6.6	N/A	N/A	N/A	N/A
Nat'l Oceanic & Atmospheric Administration	79.0	115.2	115.6	109.1	128.0	135.1	145.7	161.5	171.2	199.8	201.4
Nat'l Telecomm & Info Admin ...	N/A	N/A	N/A	N/A	N/A	N/A	2.9	1.8	4.1	10.7	10.9
Office of Telecommunications ..	2.1	3.6	3.5	1.6	1.3	.9	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	-	-	-	-	-	.1	.6	-
Patent and Trademark Office ...	.6	.6	.6	.5	.5	.4	.5	.5	.5	.5	1.1
US Travel & Tourism Admin	-	-	.8	-	-	-	-	-	-	-	-
Department of Defense, total	7,509.0	8,318.1	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2	13,981.0	16,508.6
Department of the Army	1,682.4	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7	2,980.0	3,244.2
Department of the Navy	2,283.7	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0	4,706.1	5,006.0
Department of the Air Force ...	3,113.5	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6	5,211.0	6,969.2
Defense agencies	426.5	476.4	434.1	448.9	476.5	561.6	641.4	707.9	847.6	1,046.0	1,248.2
Defense Civil Preparedness Agency	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
Test & Evaluation, Deputy Under Secretary Defense	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	166.3	139.4	104.9
Department of Energy 8/.....	N/A	N/A	N/A	N/A	N/A	N/A	3,536.2	4,244.8	4,638.8	4,753.7	4,918.2
Dept of Hlth, Education, & Welfare, total	1,476.1	1,751.1	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A
Centers for Disease Control ...	N/A	N/A	38.6	44.9	42.6	49.6	55.3	60.1	N/A	N/A	N/A
Food & Drug Administration	25.6	30.4	30.2	43.5	35.9	37.1	42.9	64.1	N/A	N/A	N/A
Health Care Financing Admin ...	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A	N/A	N/A
Health Resources Admin	N/A	-	52.7	55.8	43.3	38.2	7.4	5.5	N/A	N/A	N/A
Health Services Administration	N/A	N/A	13.2	12.5	17.3	17.5	17.7	18.2	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin .	222.9	244.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education ..	N/A	-	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A
National Institutes of Health .	1,039.0	1,271.3	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	N/A	N/A	N/A
Off of Asst Secy for Educ	-	-	-	-	.6	1.0	1.0	1.3	N/A	N/A	N/A
Off of Asst Secy for Hlth	-	-	-	-	-	-	32.2	36.2	N/A	N/A	N/A
Office of Child Development ...	11.2	17.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Education	132.4	130.1	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A
Off of Human Development Svcs .	-	-	28.8	53.0	64.3	61.9	76.8	75.8	N/A	N/A	N/A
Office of International Health	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	29.8	26.2	23.7	20.0	30.2	N/A	N/A	N/A
Social & Rehabilitation Svc ...	34.1	43.8	53.5	8.9	9.6	18.6	N/A	N/A	N/A	N/A	N/A
Social Security Administration	10.9	13.6	18.5	19.4	22.6	14.4	11.2	12.9	N/A	N/A	N/A

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,504.9	3,780.2	3,927.1
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.3	233.5	239.4
Centers for Disease Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3	87.3	74.8
Food & Drug Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61.0	75.4	71.4
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8	45.7	38.6
Health Resources Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9	5.1	5.0
Health Services Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.7	26.7	20.3
Human Development Services 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	57.1	49.3	73.7
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,953.1	3,181.8	3,333.2
Off of Asst Secy for Hlth 10/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34.6	29.9	33.1
Office of the Secretary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.7	24.0	19.5
Social Security Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3	21.4	18.0
Dept of Housing & Urban Dev	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1
Dept of the Interior, total	191.5	218.7	243.7	192.4	303.3	333.2	314.7	359.0	405.8	411.3	427.1
Bonneville Power Admin 8/	1.9	2.5	2.8	2.4	6.0	7.0	N/A	N/A	N/A	N/A	14.2
Bureau of Land Management	.8	.8	.7	.7	.8	.7	.9	1.2	1.3	1.7	1.9
Bureau of Mines	60.3	70.9	77.5	66.1	107.6	131.3	101.9	114.0	121.0	113.4	96.7
Bureau of Reclamation	9.2	10.2	9.7	7.4	7.8	8.3	9.9	11.2	12.2	14.1	14.3
Geological Survey	41.9	51.5	66.6	66.2	106.6	110.3	117.5	133.7	145.6	146.3	169.8
Heritage Conservation & Recreation Svc	.2	.0	.0	.0	.0	.0	.0	-	-	-	-
National Park Service	1.1	1.3	1.5	2.5	8.4	9.3	7.8	7.7	8.9	8.2	10.4
Office of Coal Research	16.4	20.3	26.5	-	-	-	-	-	-	-	-
Office of the Secretary	.2	1.4	21.3	.5	1.7	1.0	4.5	1.7	1.4	2.2	1.5
Off of Surface Mining Reclamation & Enforcement	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0	7.5	5.8
Office of Water Rsch & Tech	36.4	38.0	13.3	22.3	19.5	19.0	15.1	27.4	27.2	29.3	21.1
US Fish & Wildlife Service	23.0	21.9	23.7	24.3	45.0	46.2	57.1	59.9	83.1	88.6	91.5
Department of Justice, total	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5
Drug Enforcement Admin	1.5	1.2	1.6	5.0	1.5	2.5	3.0	1.9	2.4	2.7	1.3
Fed Bureau of Investigation	1.0	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1	1.4	.7
Federal Prison System	.4	.5	.5	.5	.6	.8	1.1	3.6	3.4	2.1	2.5
Immigration & Naturalization Svc	-	-	-	-	.1	.1	.3	.4	.2	.3	.1
Office of Justice Programs	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0
Office of Legal Policy	-	-	-	-	-	-	-	1.6	1.7	1.8	.8
Department of Labor, total	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2
Bureau of Labor Statistics	3.8	4.8	1.0	1.7	1.8	1.3	1.4	1.2	.9	.9	.3
Employment Standards Admin	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2
Employment & Training Admin	16.5	15.6	14.6	16.1	15.5	17.5	16.8	86.6	120.8	121.7	52.4
Labor-Management Svcs Admin 11/	.5	.7	.9	1.2	.8	.7	3.3	2.8	3.2	2.8	1.8
Occupational Safety & Hlth Administration	.3	.2	.9	1.4	2.0	2.9	3.4	1.3	5.1	6.3	3.0
Office of the Secretary	.2	.2	1.2	2.5	2.0	1.8	.2	2.2	1.6	1.4	1.1
Pension Benefit Guaranty Corporation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.5
Department of State, total	30.1	26.6	26.2	22.5	27.9	39.4	61.4	85.2	3.2	2.2	1.8
Agency for Internat'l Dev 12/	29.7	26.0	24.7	21.1	26.7	37.8	59.1	82.4	N/A	N/A	N/A
Departmental funds	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8
Dept of Transportation, total	497.2	310.5	310.6	369.8	311.6	294.5	354.6	408.3	370.1	361.2	415.5
Coast Guard	21.6	30.3	27.7	21.6	15.9	12.4	18.9	23.7	21.1	18.0	26.3
Federal Aviation Admin	346.3	100.9	79.5	125.0	105.6	98.1	103.4	110.5	110.5	103.1	120.0
Federal Highway Administration	26.8	20.7	23.6	40.8	44.7	28.9	55.5	51.7	52.9	51.1	51.2
Federal Railroad Admin	21.6	26.3	35.5	33.5	32.4	50.4	41.9	53.9	44.2	46.2	36.6
Maritime Administration 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.2
Nat'l Highway Traffic Safety Administration	26.7	50.0	54.6	53.6	34.0	31.4	47.0	66.3	56.6	63.6	65.9
Office of the Secretary	15.3	23.6	23.6	29.7	31.3	25.8	28.0	31.7	11.7	10.8	10.1
Rsch & Special Programs Admin	N/A	N/A	N/A	N/A	N/A	N/A	-	.9	15.0	14.0	13.1
Urban Mass Trans Admin	39.0	58.8	66.2	65.6	47.7	47.5	59.9	69.6	58.0	54.4	78.2
Dept of the Treasury, total	.8	1.3	1.0	1.1	1.7	3.7	4.8	9.9	9.5	12.0	11.3
Bureau of Alcohol, Tobacco, & Firearms	N/A	-	-	-	-	-	1.1	2.0	2.5	1.6	.3
Bureau of Engraving & Printing	.8	1.3	1.0	1.1	1.7	2.8	2.5	3.7	2.1	2.3	2.7
Internal Revenue Service	-	-	-	-	-	-	-	2.4	3.6	4.0	4.2
Office of Protective Research	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.4	.6
United States Customs Service	-	-	-	-	-	1.0	1.2	1.8	1.3	3.8	3.5
Department of Veterans Affairs	62.9	69.1	74.3	84.8	94.8	97.7	107.0	114.0	127.0	133.4	144.4

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-147A. Federal obligations for research and development, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Other Agencies											
Action	0.1	-	-	0.2	0.2	0.1	0.5	1.6	1.6	-	-
Advisory Comm on Intergov't'l Relations	.5	0.7	0.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2
Agency For International Dev 12/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	106.5	149.3	134.2
Appalachian Regional Commission .	3.0	-	-	-	-	.7	.7	.5	.9	.8	.4
Atomic Energy Commission	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civil Service Commission	.6	1.0	2.4	3.1	4.4	4.0	3.9	N/A	N/A	N/A	N/A
Community Services Admin	N/A	N/A	N/A	21.7	23.1	10.2	24.0	24.3	20.7	30.3	18.3
Consumer Product Safety Comm	N/A	-	.3	4.3	6.0	5.6	6.7	3.8	3.9	3.5	.5
Energy Rsch & Development Admin 13/	N/A	N/A	N/A	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	136.7	122.4	180.6	169.2	257.7	259.1	295.5	384.6	410.1	345.0	325.7
Federal Communications Comm	.6	.7	1.1	.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8
Fed Emergency Management Agency .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.0	12.6	11.8	11.6
Federal Energy Administration	N/A	N/A	N/A	-	1.3	3.0	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 14/.	.4	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0
Federal Trade Commission	.4	.6	.7	.9	.9	.9	1.1	1.4	1.5	3.0	1.1
General Services Admin	.2	.3	.5	1.8	1.8	1.1	.9	2.7	.5	.2	.6
International Trade Commission ..	-	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4
Interstate Commerce Commission ..	-	-	-	-	-	.1	.1	.3	.2	.1	-
Library of Congress	2.5	2.3	2.6	2.2	2.6	3.0	3.8	4.9	5.9	6.9	4.9
Nat'l Aeronautics & Space Admin .	3,257.9	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,170.8	3,333.3	3,578.4	3,234.1	3,593.2
National Science Foundation	336.9	454.8	479.9	556.4	595.0	609.3	697.0	748.8	807.9	881.8	961.6
Nuclear Regulatory Commission	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7
Office of Economic Opportunity ..	134.0	92.7	87.8	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Office of Emergency Preparedness	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Personnel Management ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.0	6.8	8.4
Office of Science and Technology	2.0	2.0	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Telecomm Policy	.2	1.2	.6	.3	4.1	4.6	-	-	N/A	N/A	N/A
Postal Service	39.7	-	-	-	-	-	-	-	-	-	-
Small Business Administration	-	-	-	-	.2	.1	.5	-	-	-	-
Smithsonian Institution	15.1	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9	41.0	44.9
Spec Action Off for Drug Abuse Prevention	N/A	-	12.0	11.1	3.8	-	N/A	N/A	N/A	N/A	N/A
Tennessee Valley Authority	9.3	10.1	14.3	13.2	16.6	18.7	26.5	31.5	38.4	80.1	68.9
US Arms Control & Disarmament Agency	1.7	1.9	2.0	1.1	1.0	1.4	2.2	3.6	3.5	3.8	2.4
US Information Agency 15/	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.5

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

10/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

13/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

15/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-1478. Federal obligations for research and development, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.1	56,768.8	61,405.8	63,667.3	63,217.9	70,427.4
Departments											
Department of Agriculture, total	797.3	847.6	866.2	943.0	928.5	947.9	1,016.6	1,038.3	1,108.4	1,218.6	1,255.7
Agricultural Cooperative Svc 1/	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.9	3.0
Agricultural Marketing Svc 2/	1.2	1.4	1.5	1.7	1.6	1.5	1.6	1.5	2.7	3.0	3.2
Agricultural Research Svc 3/	404.9	443.4	451.3	469.7	463.4	478.6	505.7	523.5	545.5	589.1	623.5
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	4.2	4.9	5.6	7.4	8.0	8.7	9.2
Cooperative State Rsch Svc 4/	219.0	232.3	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.7	373.2
Economic Research Service	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	62.5
Federal Grain Inspection Svc	N/A	N/A	N/A	.9	1.0	1.2	1.0	1.1	.6	.8	.8
Forest Service	112.1	107.7	108.4	113.1	113.3	126.7	135.5	131.4	158.6	167.6	163.2
Human Nutrition Info Service	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	10.0	12.7
Off of Internat'l Cooperation & Dev	2.6	5.3	8.2	7.7	7.0	5.6	5.0	2.5	3.6	2.5	1.6
Office of Transportation 2/	.9	.8	1.0	1.2	1.0	1.1	1.1	-	-	-	-
Nat'l Agricultural Stat Svc	7.0	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	2.9	3.0
Department of Commerce, total	336.3	335.0	358.2	398.8	399.2	402.2	388.9	397.9	438.2	525.9	539.0
Bureau of the Census	3.8	4.3	4.4	4.9	4.7	4.7	5.7	4.9	6.9	5.5	5.8
Economic Development Admin	9.6	5.3	5.1	13.0	10.3	5.0	4.2	1.0	1.2	1.2	-
Nat'l Inst of Standards & Tech	88.8	95.0	95.5	100.5	100.8	98.6	107.9	115.5	122.3	175.7	186.0
Nat'l Oceanic & Atmospheric Administration	222.0	222.0	244.3	269.8	274.7	286.1	263.0	268.6	300.1	335.5	337.2
Nat'l Telecomm & Info Admin	11.3	8.3	8.7	9.1	8.4	7.8	8.1	7.8	7.7	8.0	10.0
Office of the Secretary	.0	.0	.1	1.4	.3	.0	-	-	-	-	-
Patent and Trademark Office	.7	-	-	-	-	-	-	-	-	-	-
Department of Defense, total	20,622.6	22,992.8	25,372.9	29,791.5	32,937.9	35,231.5	35,248.9	37,576.9	37,268.1	33,966.2	38,769.9
Department of the Army	3,760.5	3,998.1	4,225.5	4,570.8	4,809.4	5,019.5	4,806.0	5,659.3	5,684.1	5,557.2	6,457.5
Department of the Navy	5,845.1	6,048.2	7,603.6	9,127.4	9,650.3	9,507.8	9,514.1	9,666.1	9,586.2	8,849.6	8,427.0
Department of the Air Force	9,357.9	10,812.6	12,091.6	13,260.9	13,593.8	15,347.7	14,867.3	15,237.4	14,831.4	11,900.1	15,115.5
Defense agencies	1,618.1	2,052.3	1,391.5	2,781.7	4,767.4	5,219.7	5,832.9	6,858.9	6,945.2	7,446.5	8,480.8
Test & Evaluation, Deputy Under Secretary Defense	41.0	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	200.1	275.0
Director, Operational Test and Evaluation	N/A	N/A	N/A	N/A	-	8.4	68.2	14.4	32.6	12.8	14.1
Department of Education	126.0	111.7	115.7	124.9	121.3	132.5	140.7	159.1	169.9	207.3	222.2
Department of Energy 5/	4,708.2	4,536.7	4,673.6	4,966.0	4,688.3	4,757.2	5,036.4	5,192.6	5,630.6	6,158.7	6,498.7
Dept of Hlth & Human Svcs, total	3,940.7	4,352.5	4,830.7	5,451.0	5,657.6	6,606.3	7,158.0	7,902.8	8,405.6	9,246.3	9,780.5
Admin for Children & Families 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148.1	153.2
[illegible] or Health Care Policy & [illegible] search 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49.7	95.8	34.3
[illegible], Drug Abuse & Mental [illegible] Administration	248.1	302.2	337.2	377.6	396.1	475.5	554.8	695.7	842.7	957.2	1,022.2
Centers for Disease Control	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	109.6	113.3
Food & Drug Administration	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	110.0	125.3
Health Care Financing Admin	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.8	36.0
Health Resources & Svc's Admin	10.1	13.3	16.5	19.7	12.3	9.3	10.0	10.5	11.9	10.7	10.9
Human Development Services 6/	27.2	23.4	18.3	24.3	54.6	53.0	54.0	101.7	95.4	N/A	N/A
National Institutes of Health	3,433.1	3,789.2	4,257.4	4,827.7	5,005.1	5,850.9	6,290.9	6,778.3	7,136.5	7,705.1	8,252.7
Off of Asst Secy for Hlth 7/	16.1	16.6	18.1	18.6	17.3	21.2	21.0	27.2	6.9	10.1	3.9
Office of the Secretary	13.4	14.4	10.4	9.6	6.1	8.2	4.7	7.8	5.0	8.9	5.0
Social Security Administration	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8	13.9	20.8	23.7
Dept of Housing & Urban Dev	28.9	32.1	18.2	18.5	15.3	16.3	18.4	18.0	19.3	31.5	36.4
Dept of the Interior, total	381.1	382.5	410.9	391.7	385.2	403.8	416.8	469.0	508.5	588.8	561.8
Bureau of Land Management	5.3	3.9	3.8	4.4	3.4	3.7	3.7	3.0	2.8	5.5	11.6
Bureau of Mines	94.7	88.5	108.8	89.9	84.4	88.8	91.3	98.7	99.3	111.7	82.2
Bureau of Reclamation	10.1	10.0	10.4	13.2	10.2	10.7	4.4	4.2	5.8	8.6	11.7
Geological Survey	152.6	157.0	208.9	214.9	218.6	226.8	236.1	279.9	308.4	353.5	339.1
Minerals Management Service	-	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.6	5.7
National Park Service	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	25.2	29.0
Office of the Secretary	.5	7.4	.1	1.9	1.0	-	.4	.4	.2	.7	1.1
Off of Surface Mining Reclamation & Enforcement	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	2.9
Office of Water Rsch & Tech	11.4	2.2	3.6	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	93.9	96.7	59.1	49.0	47.0	53.3	59.2	60.6	69.4	80.1	78.5
Department of Justice, total	26.7	31.4	24.5	36.0	36.5	42.4	43.1	38.2	40.5	46.1	43.0
Drug Enforcement Admin	3.2	2.5	1.9	1.6	2.5	2.2	2.5	2.7	2.4	2.1	3.3
Fed Bureau of Investigation	2.7	2.5	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.7	10.8
Federal Prison System	1.7	1.7	1.6	1.5	3.0	7.1	6.0	5.1	4.5	4.6	4.4
Immigration & Naturalization Svc	.6	.6	.6	.4	.4	.4	.3	.1	.4	.4	.4
Office of Justice Programs	18.0	23.8	19.5	22.7	23.2	24.6	21.5	22.5	25.0	28.3	24.1
Office of Legal Policy	0.4	0.3	-	0.3	0.2	0.1	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-147B. Federal obligations for research and development, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Department of Labor, total	25.4	19.9	18.3	13.3	10.4	21.6	35.6	35.4	73.0	75.4	67.3
Bureau of Labor Statistics	.3	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.4	7.7
Employment Standards Admin	1.4	1.4	.9	.0	-	1.0	.1	.1	.1	.2	.1
Employment & Training Admin ...	16.1	9.6	6.1	3.5	3.5	5.7	14.9	15.7	53.4	53.0	39.1
Labor-Management Relations and Cooperative Programs 8/..	N/A	N/A	.3	.3	.2	.3	.4	.3	-	-	-
Labor-Management Svcs Admin 8/.	.7	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupational Safety & Hlth Administration	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	3.3	3.3
Office of the Secretary	.9	1.5	1.9	2.6	2.1	2.7	6.1	6.1	7.1	8.5	15.9
Pension Benefit Guaranty Corporation	1.1	1.1	.3	.2	.1	.3	.3	.3	.5	.5	.5
Pension & Welfare Benefit Admin	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6
Department of State, total	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	8.9	9.0
Dept of Transportation, total ...	310.1	347.7	448.3	428.9	385.5	324.3	304.0	302.6	365.6	414.3	434.9
Coast Guard	20.0	19.6	19.5	19.0	16.9	17.0	21.1	17.9	20.2	24.6	28.4
Federal Aviation Admin	94.3	126.2	266.2	286.3	260.6	167.3	160.5	146.8	216.1	230.3	234.1
Federal Highway Administration	40.3	50.4	46.4	49.0	45.5	76.0	73.5	90.3	90.6	105.6	102.6
Federal Railroad Admin	18.2	16.5	19.2	15.0	15.4	11.2	10.0	9.0	10.2	23.2	25.8
Maritime Administration 9/.....	11.1	15.0	9.9	13.9	9.4	5.8	.5	-	.9	1.0	2.0
Nat'l Highway Traffic Safety Administration	55.4	52.0	56.9	28.1	22.4	27.9	28.3	29.7	16.9	21.4	23.7
Office of the Secretary	3.3	4.9	4.9	4.8	5.1	4.5	5.7	5.5	6.8	4.3	5.9
Rsch & Special Programs Admin .	6.1	6.2	5.2	2.7	2.0	2.1	2.1	2.0	2.4	2.3	3.0
Urban Mass Trans Admin	61.4	57.0	20.1	10.2	8.2	12.6	2.3	1.4	1.6	1.6	9.4
Dept of the Treasury, total	13.3	15.6	13.9	24.3	24.0	26.9	26.1	25.6	25.6	29.3	31.9
Bureau of Engraving & Printing	4.8	3.9	3.6	5.0	4.2	4.5	2.0	1.7	2.1	4.8	4.7
Internal Revenue Service	5.4	8.0	8.2	15.9	14.2	14.6	14.4	14.4	16.8	17.9	17.9
Office of Protective Research .	-	.3	.2	.6	.4	.5	.4	.6	.5	.5	.5
United States Customs Service .	3.1	3.3	1.8	2.2	4.8	7.0	9.2	6.8	6.2	5.2	8.5
United States Mint	-	-	-	.6	.3	.2	.1	2.0	.1	.9	.3
Department of Veterans Affairs ..	137.3	161.4	190.3	226.6	186.2	209.5	215.3	234.7	237.7	243.2	220.8
Other Agencies											
Advisory Comm on Intergov'tl Relations	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.5	1.4
Agency For International Dev 10/.	199.9	227.3	237.2	220.4	251.2	217.5	204.4	279.1	334.6	322.4	355.7
Appalachian Regional Commission .	.4	.2	.5	.2	.2	.1	.2	.8	.4	.3	-
Consumer Product Safety Comm	.2	.5	1.3	2.4	2.0	2.2	1.1	1.3	1.1	1.5	1.3
Environmental Protection Agency .	335.1	240.7	261.2	320.4	317.3	348.2	347.4	380.3	419.7	425.4	482.9
Federal Communications Comm	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.6	1.4
Fed Emergency Management Agency .	9.2	3.3	11.5	4.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 11/.	2.7	3.0	2.6	2.8	3.3	3.4	3.4	N/A	N/A	N/A	N/A
Federal Trade Commission	1.2	1.4	1.6	1.7	1.8	.5	.4	.4	.5	.5	.5
General Services Admin	1.0	.5	2.4	.4	1.2	1.6	2.3	.5	.7	-	-
International Trade Commission ..	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	10.9	11.8
Library of Congress	5.7	7.4	7.5	7.1	6.6	6.5	7.1	8.0	8.4	9.2	9.6
Nat'l Aeronautics & Space Admin .	3,077.9	2,661.6	2,821.9	3,327.2	3,419.8	3,787.1	4,330.4	5,393.5	6,533.2	7,434.6	8,543.0
National Archives and Records Admin	N/A	N/A	N/A	.5	1.0	1.1	.7	.3	.4	.7	.6
National Science Foundation	975.3	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,847.0	2,101.6
Nuclear Regulatory Commission ...	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	229.6	250.9
Office of Thrift Supervision 11/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1	4.1	3.3	3.5
Smithsonian Institution	52.4	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.2	111.7
Tennessee Valley Authority	85.0	63.0	68.1	79.5	77.5	77.9	87.3	62.6	64.9	70.0	77.7
US Arms Control & Disarmament Agency	1.9	1.0	1.3	1.1	.9	3.6	3.4	2.8	.2	.3	2.0
US Information Agency 12/.....	.1	.0	1.4	.1	2.0	3.5	.4	.1	.5	.4	.7

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

7/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

8/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

9/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

10/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

11/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

12/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-148A. Federal obligations for R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	611.2	602.1	774.3	766.3	820.7	836.7	1,367.2	1,295.7	1,475.5	1,555.7	1,485.7
Departments											
Department of Agriculture, total	5.1	7.8	2.9	8.8	7.8	16.1	12.9	24.7	22.6	56.9	20.8
Agricultural Research Svc 1/	4.1	4.2	1.7	4.7	4.5	13.2	11.1	22.0	19.1	53.2	17.6
Cooperative State Rsch Svc 2/	-	-	-	-	-	-	-	-	-	-	-
Forest Service	1.0	3.6	1.2	4.1	3.3	2.9	1.8	2.7	3.5	3.6	3.2
Department of Commerce, total	9.2	7.4	7.9	11.6	9.5	6.6	7.1	4.1	2.4	4.6	1.3
Maritime Administration 3/	3.6	.7	2.1	2.8	1.1	2.2	4.9	1.0	.9	.5	N/A
Nat'l Inst of Standards & Tech	1.2	1.8	2.1	.9	1.4	.5	.7	.8	1.5	.3	.5
Nat'l Oceanic & Atmospheric Administration	4.4	4.9	3.7	7.9	7.1	4.0	1.5	2.3	-	3.9	.8
Department of Defense, total	153.7	174.7	146.4	169.1	167.1	143.4	445.6	232.6	270.2	208.2	277.7
Department of the Army	43.6	39.5	17.1	32.1	23.9	12.3	16.3	7.6	3.8	13.8	12.8
Department of the Navy	28.0	40.4	35.7	54.0	62.7	45.8	61.2	48.3	68.1	83.2	97.9
Department of the Air Force	49.7	70.8	70.6	67.7	59.6	73.0	350.0	160.1	167.5	108.0	159.6
Defense agencies	32.3	24.1	23.0	15.3	20.9	12.3	18.1	16.6	30.8	3.2	7.4
Department of Energy 4/	N/A	N/A	N/A	N/A	N/A	N/A	561.0	690.7	844.4	1,024.1	978.2
Dept of Hlth, Education, & Welfare, total	17.4	55.0	41.6	40.9	39.1	33.1	132.6	74.3	N/A	N/A	N/A
Centers for Disease Control	N/A	N/A	.0	-	-	-	-	-	N/A	N/A	N/A
Food & Drug Administration	-	-	.2	.4	.7	.9	.8	.9	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	.6	5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
National Institutes of Health	16.3	49.8	41.3	40.5	38.4	32.2	131.8	73.4	N/A	N/A	N/A
Office of Education	.5	.1	-	-	-	-	-	-	N/A	N/A	N/A
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.5	30.6	23.7
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.1	-	.2
Food & Drug Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.8	1.2	1.2
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47.6	29.4	22.3
Dept of the Interior, total	8.5	13.8	22.0	2.1	3.9	5.9	5.0	15.0	5.0	7.5	3.5
Bonneville Power Admin 4/	1.0	.8	.2	.1	.1	.1	N/A	N/A	N/A	N/A	.3
Bureau of Mines	-	-	-	-	-	-	3.4	7.1	.3	1.0	.6
Geological Survey	-	.0	.7	.4	-	-	-	-	-	-	-
National Park Service	-	-	-	-	.0	.0	.0	-	-	-	-
Office of Coal Research	2.4	12.1	19.9	-	-	-	-	-	-	-	-
Office of the Secretary	-	-	.1	-	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	.3	-
Office of Water Rsch & Tech	4.9	.3	-	.5	-	-	.9	.6	.7	.7	.8
US Fish & Wildlife Service	.2	.6	1.2	1.2	3.8	5.8	.6	7.3	4.0	5.5	1.8
Department of State, total	8.9	2.6	.4	.4	-	5.1	16.2	.2	-	-	-
Agency for Internat'l Dev 5/	8.9	2.6	.4	.4	-	5.1	16.2	.2	N/A	N/A	N/A
Dept of Transportation, total	10.8	25.8	38.2	13.4	13.3	14.2	22.5	14.1	22.6	23.3	18.9
Coast Guard	1.6	8.6	17.1	5.1	.6	.4	.6	.7	-	-	-
Federal Aviation Admin	1.1	1.5	1.5	.4	3.4	2.0	3.0	1.0	9.9	5.7	8.9
Federal Highway Administration	.4	.2	.2	.4	.4	.4	.4	.4	.6	7.2	.0
Federal Railroad Admin	3.7	10.3	11.4	3.9	7.0	10.1	16.6	11.8	11.9	10.2	9.5
Nat'l Highway Traffic Safety Administration	-	-	-	-	-	-	.2	.2	.2	.2	.5
Urban Mass Trans Admin	4.0	5.2	8.2	3.7	1.8	1.3	1.7	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-148A. Federal obligations for R&D plant, by agency: fiscal years 1971-81

[Dollars in millions]

Agency and subdivision	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of the Treasury, total	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1
Bureau of Engraving & Printing	.0	.0	.0	.0	.0	-	-	-	-	-	-
United States Customs Service .	-	-	-	-	-	.1	.1	.0	.0	.0	.1
Department of Veterans Affairs ..	15.0	2.2	10.3	2.1	2.2	11.8	5.9	4.1	5.1	4.4	14.8
Other Agencies											
Agency For International Dev 5/..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.4	6.3	8.0
Atomic Energy Commission	312.2	246.7	349.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consumer Product Safety Comm	N/A	-	-	-	1.9	.2	-	.3	2.7	2.7	-
Energy Rsch & Development Admin 6/.....	N/A	N/A	N/A	392.7	392.6	438.8	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	1.1	.7	24.5	1.2	2.1	6.3	2.1	4.6	2.4	-	-
Federal Communications Comm	.0	.0	-	-	-	-	-	-	-	-	-
Nat'l Aeronautics & Space Admin .	40.2	45.2	69.3	98.4	142.7	82.1	118.1	162.3	147.5	159.1	115.6
National Science Foundation	27.9	18.6	57.1	11.7	23.1	52.6	27.1	39.7	30.2	18.7	14.6
Nuclear Regulatory Commission ...	N/A	N/A	N/A	3.8	3.0	9.6	7.1	6.9	8.6	7.7	7.7
Postal Service	.7	-	-	-	-	-	-	-	-	-	-
Smithsonian Institution	-	-	.1	.4	.4	.5	.2	.2	1.0	.9	.4
Tennessee Valley Authority	.6	1.5	4.5	9.7	12.2	10.2	3.7	21.9	50.8	.6	.4

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

2/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

3/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

4/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

5/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

6/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-1488. Federal obligations for R&D plant, by agency: fiscal years 1982-92

[Dollars in millions]

Agency and subdivision	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	1,389.8	1,298.1	1,787.3	1,820.8	1,538.8	1,846.0	2,057.1	2,165.1	2,283.6	3,009.4	3,056.5
Departments											
Department of Agriculture, total	21.5	33.9	39.2	40.6	79.4	111.8	135.2	89.2	102.2	150.3	113.3
Agricultural Research Svc 1/	21.1	23.4	28.8	29.0	69.2	43.9	55.5	55.2	44.4	79.1	82.2
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	-	-	.5	.3	6.1	-	2.5
Cooperative State Rsch Svc 2/	-	10.0	10.0	10.0	9.5	67.6	76.2	32.2	46.9	66.8	25.0
Forest Service	.4	.5	.4	1.6	.6	.3	2.9	1.6	4.9	4.4	3.6
Department of Commerce, total	1.0	.7	9.4	4.2	9.3	5.2	11.2	9.1	15.4	20.7	23.6
Nat'l Inst of Standards & Tech	1.0	.7	9.4	4.2	7.7	2.0	10.7	8.6	8.8	15.4	20.5
Nat'l Oceanic & Atmospheric Administration	-	-	-	-	1.5	3.2	.5	.5	6.6	5.3	3.1
Department of Defense, total	290.5	312.5	529.2	530.9	286.1	477.2	435.8	499.3	487.3	479.0	432.9
Department of the Army	24.7	26.3	56.2	52.9	53.9	65.8	92.8	45.1	53.1	52.6	19.2
Department of the Navy	155.9	141.7	173.4	182.1	97.6	69.0	74.9	89.6	60.4	165.6	75.1
Department of the Air Force	84.7	138.7	285.4	291.3	130.1	270.3	143.7	250.2	322.2	213.5	311.8
Defense agencies	25.2	5.8	14.2	4.6	4.5	72.1	124.4	114.4	51.6	47.3	26.8
Department of Education	-	-	-	1.1	6.6	21.0	5.2	1.9	8.9	6.9	2.1
Department of Energy 3/	914.0	757.7	852.4	868.4	742.3	772.2	915.0	873.0	916.0	992.5	1,335.5
Dept of Hlth & Human Svcs, total	24.7	47.9	31.1	42.1	37.9	36.7	19.5	78.6	107.8	244.0	122.4
Alcohol, Drug Abuse & Mental Health Administration	3.3	1.8	.3	.4	.5	.6	-	-	-	-	-
Food & Drug Administration	2.0	28.5	3.0	13.0	8.0	.8	.5	23.0	23.0	2.5	1.0
National Institutes of Health	19.4	17.5	27.8	28.8	29.4	35.3	19.0	55.6	84.8	241.5	121.4
Social Security Administration	-	-	-	-	-	-	-	-	-	.0	.0
Dept of the Interior, total	1.3	2.4	5.2	4.2	4.3	11.8	9.4	10.8	14.0	14.7	6.0
Bureau of Mines	.1	.1	.0	-	-	-	-	2.6	3.0	.6	.6
Geological Survey	-	1.4	1.0	.8	.8	.8	.8	1.3	1.3	1.8	1.8
Minerals Management Service	-	-	-	-	-	-	-	-	.2	.3	.5
Office of Water Rsch & Tech	.9	-	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	.3	.9	4.2	3.4	3.5	11.0	8.6	6.9	9.5	12.1	3.1
Department of Justice, total	-	-	-	-	-	11.1	-	-	-	-	-
Fed Bureau of Investigation	-	-	-	-	-	11.1	-	-	-	-	-
Dept of Transportation, total	11.9	21.9	16.9	9.0	12.1	11.2	13.9	15.5	21.8	21.0	26.7
Federal Aviation Admin	5.1	21.4	16.4	8.5	10.9	10.4	13.2	15.5	21.4	18.3	25.8
Federal Highway Administration	-	-	-	-	.7	.3	-	-	-	-	-
Federal Railroad Admin	6.3	-	-	-	-	-	.4	-	-	2.3	.5
Nat'l Highway Traffic Safety Administration	.5	.5	.5	.5	.5	.5	-	-	-	-	-
Dept of the Treasury, total	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Office of Protective Research	-	-	-	-	.1	.0	.0	.0	.0	.0	.0
United States Customs Service	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Department of Veterans Affairs	2.8	10.5	6.1	3.3	4.8	5.9	19.5	11.0	3.3	11.1	5.1
Other Agencies											
Agency For International Dev 4/	6.0	4.8	7.8	6.9	7.5	6.8	6.1	-	13.4	12.9	14.2
General Services Admin	-	-	-	-	18.8	-	-	-	17.3	30.4	-
Nat'l Aeronautics & Space Admin	113.7	101.3	244.2	234.3	275.0	309.4	428.2	519.5	527.0	949.2	829.1
National Science Foundation	1.5	3.2	45.2	73.6	53.2	61.3	56.9	53.6	39.3	73.2	140.3
Smithsonian Institution	.5	1.0	.2	1.6	.7	2.9	.7	3.4	4.8	3.3	4.1
Tennessee Valley Authority	.3	.3	.2	.5	.8	.3	.4	.2	4.9	.1	1.1
US Arms Control & Disarmament Agency	-	-	-	-	-	1.0	-	-	-	-	-

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

2/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

3/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

4/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-149. Federal obligations for research and development by character of work, and R&D plant: fiscal years 1971-92

[Dollars in millions]

Fiscal years	Total	Research		Development	R&D plant
		Basic	Applied		
1971	16,153.8	1,980.1	3,143.0	10,419.3	611.2
1972	17,098.0	2,186.9	3,360.8	10,948.2	602.1
1973	17,574.5	2,232.0	3,349.4	11,218.7	774.3
1974	18,176.5	2,387.7	3,787.6	11,234.9	766.3
1975	19,859.5	2,588.4	4,141.3	12,309.1	820.7
1976	21,616.4	2,767.5	4,851.9	13,160.3	836.7
1977	24,817.6	3,258.6	5,255.5	14,936.3	1,367.2
1978	27,140.8	3,698.6	5,908.2	16,238.4	1,295.7
1979	29,620.6	4,192.7	6,342.3	17,610.1	1,475.5
1980	31,386.1	4,674.2	6,923.2	18,233.1	1,555.7
1981	34,589.6	5,041.3	7,171.5	20,891.1	1,485.7
1982	37,822.4	5,481.6	7,540.6	23,410.4	1,389.8
1983	40,009.6	6,260.1	7,993.4	24,458.0	1,298.1
1984	44,012.1	7,067.4	7,911.4	27,246.1	1,787.3
1985	50,180.4	7,818.7	8,314.7	32,226.1	1,820.8
1986	52,951.2	8,153.1	8,349.1	34,910.2	1,538.8
1987	57,099.0	8,942.4	8,997.9	37,312.7	1,846.0
1988	58,825.9	9,473.6	9,176.4	38,118.8	2,057.1
1989	63,570.9	10,602.0	10,163.3	40,640.4	2,165.1
1990	65,950.9	11,285.6	10,453.3	41,928.4	2,283.6
1991 (Estimated)	66,227.3	12,445.9	11,626.0	39,146.0	3,009.4
1992 (Estimated)	73,484.0	13,208.0	12,475.5	44,744.0	3,056.5

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-150A. Federal obligations for research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	5,123.2	5,547.7	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8
Departments											
Department of Agriculture, total	292.2	337.2	354.1	365.1	401.9	442.2	524.0	594.5	631.9	657.4	741.0
Agricultural Cooperative Svc 1/	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7
Agricultural Marketing Svc 2/	N/A	-	-	-	-	-	-	-	.4	1.0	.9
Agricultural Research Svc 3/	161.8	183.9	189.7	193.4	204.1	227.6	281.0	303.7	320.9	328.6	367.9
Cooperative State Rsch Svc 4/	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4
Econ, Stat & Coop Svc 5/	N/A	N/A	N/A	N/A	N/A	N/A	29.7	32.7	35.5	N/A	N/A
Economic Research Service	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A
Economics & Statistics Svc 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A
Forest Service	45.1	52.9	56.1	62.3	73.3	74.5	86.1	100.7	102.5	106.1	119.9
National Agricultural Library	.4	.2	.3	.1	.0	.0	-	-	-	-	-
Off of Internat'l Cooperation & Dev	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	4.9	3.6
Office of Transportation 2/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	.8
Nat'l Agricultural Stat Svc	.5	.5	.5	.4	1.0	1.6	N/A	N/A	N/A	N/A	7.5
Department of Commerce, total	113.7	143.4	130.2	129.2	144.4	155.7	176.1	192.8	219.5	254.4	249.4
Bureau of the Census	2.0	1.8	.5	.7	.7	2.1	2.0	2.3	1.8	1.9	3.0
Economic Development Admin	1.7	.8	.9	.9	1.1	2.1	2.5	5.9	8.5	2.5	1.8
Maritime Administration 7/	13.2	20.7	5.9	5.8	5.7	5.0	3.7	7.0	12.2	12.1	N/A
Minority Business Dev Agency	-	-	-	.2	.9	.4	.7	-	-	-	-
Nat'l Inst of Standards & Tech	28.7	29.8	31.0	32.7	34.7	37.5	45.0	48.5	51.8	58.9	66.2
Nat'l Fire Prevention & Control Administration	N/A	-	-	-	.7	3.2	4.5	N/A	N/A	N/A	N/A
Nat'l Oceanic & Atmospheric Administration	65.6	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5
Nat'l Telecomm & Info Admin	N/A	N/A	N/A	N/A	N/A	N/A	2.0	1.1	2.4	9.6	9.9
Office of Telecommunications	2.1	-	2.3	1.6	.6	.4	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	-	-	-	-	-	.1	.5	-
Patent and Trademark Office	.4	-	-	.2	.3	.2	-	-	-	-	-
US Travel & Tourism Admin	-	-	.4	-	-	-	-	-	-	-	-
Department of Defense, total	1,309.3	1,504.6	1,436.1	1,434.4	1,431.0	1,527.5	1,715.8	1,824.1	2,014.1	2,261.8	2,600.9
Department of the Army	309.9	371.5	377.1	366.5	336.4	362.4	398.0	409.8	448.6	479.3	536.5
Department of the Navy	353.9	406.4	386.3	401.3	406.5	438.0	497.4	526.3	567.3	611.1	698.0
Department of the Air Force	321.9	342.3	341.0	341.7	355.8	382.3	425.8	448.7	492.3	537.3	617.3
Defense agencies	320.5	380.4	328.5	322.2	330.6	344.1	393.4	431.7	505.9	634.1	749.1
Defense Civil Preparedness Agency	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	93.4	87.6	53.8
Department of Energy 8/	N/A	N/A	N/A	N/A	N/A	N/A	891.3	1,102.2	1,131.8	1,277.3	1,413.6
Dept of Hlth, Education, & Welfare, total	1,231.9	1,432.0	1,444.2	1,846.7	1,924.8	2,150.7	2,414.3	2,740.7	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	122.2	155.6	139.4	136.6	152.0	178.8	N/A	N/A	N/A
Centers for Disease Control	N/A	N/A	38.3	44.9	42.6	49.6	55.3	60.1	N/A	N/A	N/A
Food & Drug Administration	25.6	30.4	30.2	43.5	35.9	37.1	42.9	64.1	N/A	N/A	N/A
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A	N/A	N/A
Health Resources Admin	N/A	-	11.0	9.7	16.7	31.0	7.4	5.0	N/A	N/A	N/A
Health Services Administration	N/A	N/A	10.1	9.4	10.6	9.5	9.5	10.6	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	179.2	200.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	16.1	9.5	4.1	10.8	27.1	34.6	N/A	N/A	N/A
National Institutes of Health	913.5	1,099.4	1,132.1	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	N/A	N/A	N/A
Off of Asst Secy for Educ	-	-	-	-	.6	1.0	1.0	1.3	N/A	N/A	N/A
Off of Asst Secy for Hlth	-	-	-	-	-	-	28.6	32.6	N/A	N/A	N/A
Office of Child Development	7.9	12.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Education	62.8	36.0	6.6	6.4	5.3	21.4	11.9	13.3	N/A	N/A	N/A
Off of Human Development Svcs	-	-	10.1	17.2	7.1	34.6	48.7	65.2	N/A	N/A	N/A
Office of International Health	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	29.8	26.2	23.7	20.0	30.2	N/A	N/A	N/A
Social & Rehabilitation Svc	32.1	39.9	48.3	8.9	9.6	18.6	N/A	N/A	N/A	N/A	N/A
Social Security Administration	10.9	13.6	18.5	19.4	22.6	9.1	11.2	12.9	N/A	N/A	N/A

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-150A. Federal obligations for research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,015.7	3,332.8	3,492.2
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	213.5	233.5	237.7
Centers for Disease Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3	87.3	74.8
Food & Drug Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61.0	75.4	71.4
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8	45.7	38.6
Health Resources Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9	5.1	5.0
Health Services Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.2	8.0	10.2
Human Development Services 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.9	19.1	39.9
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,530.1	2,787.5	2,948.3
Off of Asst Secy for Hlth 10/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29.9	25.7	26.8
Office of the Secretary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.7	24.0	19.5
Social Security Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3	21.4	18.0
Dept of Housing & Urban Dev	10.5	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7
Dept of the Interior, total	136.9	147.3	160.2	143.5	234.1	259.5	255.9	283.5	339.5	354.4	369.8
Bonneville Power Admin 8/	.3	.3	.3	.4	.5	.5	N/A	N/A	N/A	N/A	6.5
Bureau of Land Management	.8	.8	.7	.6	.7	.7	.8	1.0	1.1	1.3	1.5
Bureau of Mines	38.7	40.7	41.5	30.5	52.9	73.3	52.3	57.0	79.1	82.8	68.0
Bureau of Reclamation	9.1	9.9	9.4	6.9	7.3	7.9	9.3	10.6	11.4	12.9	13.4
Geological Survey	41.9	51.5	62.9	66.2	106.6	110.3	117.5	133.7	145.1	145.8	169.3
Heritage Conservation & Recreation Svc	.2	.0	.0	.0	.0	.0	.0	-	-	-	-
National Park Service	1.1	1.3	1.5	2.5	8.4	9.3	7.5	7.7	8.9	8.2	10.4
Office of Coal Research	5.0	4.2	5.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	.2	.3	4.1	.4	1.3	1.0	4.5	1.7	1.4	2.2	1.5
Off of Surface Mining Reclamation & Enforcement	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0	7.5	5.8
Office of Water Rsch & Tech	18.5	18.7	13.3	15.0	15.4	14.0	12.3	15.4	17.8	18.4	15.8
US Fish & Wildlife Service	21.0	19.5	20.8	21.0	40.9	42.5	51.7	54.2	69.6	75.2	77.8
Department of Justice, total	6.5	12.4	7.0	18.6	18.9	18.3	17.6	45.7	28.8	28.8	19.5
Drug Enforcement Admin	1.5	1.2	1.6	1.7	.9	.5	.9	.5	.7	.8	.4
Federal Prison System	-	-	-	-	-	-	.1	.7	.5	.9	1.7
Immigration & Naturalization Svc	-	-	-	-	.0	.1	.1	.2	.1	.2	.1
Office of Justice Programs	5.0	11.2	5.5	16.9	17.9	17.7	16.4	43.3	25.9	25.6	16.7
Office of Legal Policy	-	-	-	-	-	-	-	1.1	1.6	1.3	.7
Department of Labor, total	13.6	13.3	13.3	17.2	15.3	18.0	18.7	25.7	42.1	36.4	58.2
Bureau of Labor Statistics	2.9	2.5	.8	.6	.7	.8	.9	.8	.9	.9	.3
Employment Standards Admin	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2
Employment & Training Admin	8.2	8.3	8.8	11.7	7.1	7.5	6.4	14.9	25.9	20.1	48.8
Labor-Management Svcs Admin 11/	.5	.7	.9	1.2	.8	.7	3.3	2.8	3.2	2.8	1.8
Occupational Safety & Hlth Administration	.3	-	.4	.5	1.4	2.9	3.4	1.3	5.1	6.3	3.0
Office of the Secretary	.2	.2	1.2	2.3	2.0	1.8	.2	2.2	1.6	1.4	1.1
Pension Benefit Guaranty Corporation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.1
Department of State, total	29.0	25.7	24.6	17.8	22.5	25.1	38.3	49.1	2.7	2.0	1.6
Agency for Internat'l Dev 12/	28.6	25.2	23.9	16.8	21.7	24.0	36.2	46.6	N/A	N/A	N/A
Departmental funds	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.7	2.0	1.6
Dept of Transportation, total	97.0	98.2	77.2	61.8	53.8	31.1	51.8	66.5	67.0	82.4	88.6
Coast Guard	4.7	5.1	5.3	6.7	4.3	2.6	2.5	2.3	10.9	8.1	15.0
Federal Aviation Admin	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2
Federal Highway Administration	23.9	20.3	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1
Federal Railroad Admin	18.0	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2
Maritime Administration 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.5
Nat'l Highway Traffic Safety Administration	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4
Office of the Secretary	8.7	12.8	9.0	15.2	14.4	3.9	4.2	4.1	.6	.6	.7
Rsch & Special Programs Admin	N/A	N/A	N/A	N/A	N/A	N/A	-	.1	5.0	5.5	5.2
Urban Mass Trans Admin	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	9.3
Dept of the Treasury, total	.4	.5	.4	.5	.4	1.5	2.1	4.1	4.7	5.7	5.2
Bureau of Alcohol, Tobacco, & Firearms	N/A	-	-	-	-	-	.4	.4	.7	.3	.1
Bureau of Engraving & Printing	.4	.5	.4	.5	.4	1.5	1.7	1.9	.6	1.3	.9
Internal Revenue Service	-	-	-	-	-	-	-	1.8	3.5	3.9	4.2
Office of Protective Research	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-
United States Customs Service	-	-	-	-	-	-	-	-	-	.1	.1
Department of Veterans Affairs	62.1	67.1	69.7	78.7	87.1	85.1	92.3	99.4	111.4	117.9	127.7

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-150A. Federal obligations for research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Other Agencies											
Action	.1	-	-	.1	.2	.1	.1	.2	-	-	-
Advisory Comm on Intergov't Relations	.5	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2
Agency for International Dev 12/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9	79.7	86.4
Appalachian Regional Commission .	3.0	-	-	-	-	.7	.6	.3	.7	.6	.3
Atomic Energy Commission	429.0	417.1	424.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civil Service Commission	.4	.4	.5	1.3	1.5	1.1	1.1	N/A	N/A	N/A	N/A
Community Services Admin	N/A	N/A	N/A	.5	.2	-	1.0	2.0	1.8	1.3	1.9
Consumer Product Safety Comm	N/A	-	.3	2.6	3.0	3.5	3.7	.9	1.8	1.6	.2
Energy Rsch & Development Admin 13/	N/A	N/A	N/A	464.7	593.4	746.5	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	53.8	51.1	74.3	96.3	141.7	155.4	205.3	252.7	259.0	245.1	218.3
Federal Communications Comm	.6	.7	1.1	.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8
Fed Emergency Management Agency .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.8	9.7	9.3	9.1
Federal Energy Administration	N/A	N/A	N/A	-	0.2	1.0	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 14/.	0.4	0.5	0.5	0.7	.7	.8	1.7	1.0	0.9	1.2	1.0
Federal Trade Commission	.4	.6	.7	.9	.9	.9	1.1	1.4	1.5	3.0	1.1
General Services Admin	.1	.1	.3	1.4	.9	.4	.4	2.2	.2	.1	.4
International Trade Commission ..	-	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4
Interstate Commerce Commission ..	-	-	-	-	-	.1	.1	.3	.2	.1	-
Library of Congress	1.0	1.2	1.4	.4	.4	.4	.4	.5	.6	.6	.9
Nat'l Aeronautics & Space Admin .	922.7	764.6	793.9	845.7	935.1	1,222.8	1,206.1	1,345.2	1,451.2	1,609.6	1,407.2
National Science Foundation	318.3	427.3	464.0	520.3	570.0	595.8	688.3	743.5	800.0	873.7	955.5
Nuclear Regulatory Commission ...	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7
Office of Economic Opportunity ..	63.1	55.3	32.3	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Office of Emergency Preparedness	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Personnel Management ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	1.4	2.6	3.4
Office of Science and Technology	1.0	1.0	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Telecomm Policy	.2	1.2	.6	.3	2.5	1.9	-	-	N/A	N/A	N/A
Postal Service	1.0	-	-	-	-	-	-	-	-	-	-
Small Business Administration ...	-	-	-	-	.2	.1	.5	-	-	-	-
Smithsonian Institution	15.1	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9	41.0	44.9
Spec Action Off for Drug Abuse Prevention	N/A	-	12.0	11.1	3.8	-	N/A	N/A	N/A	N/A	N/A
Tennessee Valley Authority	7.5	8.3	12.5	11.6	14.7	16.5	22.9	13.5	16.5	15.8	14.2
US Arms Control & Disarmament Agency	1.4	1.5	1.7	1.1	1.0	1.4	1.8	2.5	2.7	3.0	1.6
US Information Agency 15/	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.1

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

10/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

13/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

15/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-1508. Federal obligations for research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.4	18,650.0	20,765.3	21,738.9	24,072.0	25,683.4
Departments											
Department of Agriculture, total	766.5	817.6	834.9	910.9	896.4	918.9	985.2	1,002.2	1,069.3	1,176.8	1,211.8
Agricultural Cooperative Svc 1/	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.9	3.0
Agricultural Marketing Svc 2/	1.0	1.1	1.2	1.3	1.3	1.2	1.3	1.3	2.2	2.5	2.7
Agricultural Research Svc 3/	379.1	417.9	424.3	442.0	436.0	454.6	479.4	492.1	512.3	553.2	585.4
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	4.2	4.9	5.6	7.4	8.0	8.7	9.2
Cooperative State Rsch Svc 4/	219.0	232.3	235.7	284.3	269.0	270.7	298.4	307.3	324.2	376.7	373.2
Economic Research Service	39.3	38.8	43.7	46.4	44.6	44.8	48.1	49.5	50.5	54.4	62.5
Federal Grain Inspection Svc	N/A	N/A	N/A	.8	.6	.7	.6	.8	.2	.3	.3
Forest Service	107.7	103.9	105.1	109.8	109.7	122.9	131.5	127.5	153.8	162.8	158.5
Human Nutrition Info Service	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	10.0	12.7
Off of Internat'l Cooperation & Dev	2.4	4.8	7.5	7.3	6.6	5.3	4.8	2.3	3.4	2.4	1.4
Office of Transportation 2/	.8	.8	.9	1.1	.9	.9	.9	-	-	-	-
Nat'l Agricultural Stat Svc	7.0	7.6	8.2	8.4	8.0	3.4	3.6	2.9	2.8	2.9	3.0
Department of Commerce, total	276.1	284.8	296.7	324.2	339.5	338.6	342.3	351.0	377.0	444.6	452.2
Bureau of the Census	1.9	2.2	2.4	2.5	2.6	2.8	3.8	3.0	4.9	3.6	3.9
Economic Development Admin	1.6	5.3	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.2	-
Nat'l Inst of Standards & Tech	73.9	81.5	83.7	86.5	89.1	89.4	98.9	105.6	111.8	140.4	150.3
Nat'l Oceanic & Atmospheric Administration	188.5	188.9	197.7	224.4	237.5	234.4	228.2	234.6	252.4	292.4	290.9
Nat'l Telecomm & Info Admin	10.1	6.9	7.7	7.9	7.6	7.0	7.3	6.9	6.8	7.0	7.0
Office of the Secretary	.0	.0	.0	.9	.3	.0	-	-	-	-	-
Department of Defense, total	2,952.8	3,222.6	3,048.5	3,168.3	3,227.3	3,347.6	3,239.1	3,656.1	3,529.2	3,805.8	3,911.5
Department of the Army	639.2	693.6	708.8	823.4	827.3	909.9	753.7	823.4	780.2	786.1	862.3
Department of the Navy	778.7	827.0	765.4	791.3	784.3	786.7	747.8	783.2	807.6	878.9	939.4
Department of the Air Force	633.9	688.4	740.1	736.7	759.0	784.8	773.1	807.4	776.3	712.5	851.0
Defense agencies	901.0	1,013.6	834.3	816.9	856.7	866.1	964.5	1,242.1	1,165.1	1,428.3	1,258.7
Department of Education	70.5	76.1	80.9	91.9	95.8	106.9	111.0	122.0	130.3	156.4	165.0
Department of Energy 5/	1,696.1	1,961.1	2,024.9	2,141.0	2,040.3	2,097.9	2,235.4	2,431.7	2,570.5	2,963.0	2,942.4
Dept of Hlth & Human Svcs, total	3,605.6	4,020.8	4,466.0	5,028.3	5,189.6	6,021.9	6,497.0	7,088.4	7,467.1	8,200.4	8,671.2
Administration for Children and Families 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.9	8.8
Agency for Health Care Policy and Research 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.2	87.2	31.2
Alcohol, Drug Abuse & Mental Health Administration	246.1	300.4	336.0	376.4	394.9	473.3	552.4	692.6	801.2	909.2	969.1
Centers for Disease Control	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	109.6	113.3
Food & Drug Administration	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	110.0	125.3
Health Care Financing Admin	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.8	36.0
Health Resources & Svc's Admin	6.7	11.0	16.2	18.2	12.3	9.3	10.0	10.5	11.9	10.7	10.9
Human Development Services 6/	8.7	6.9	4.5	5.8	6.8	9.4	7.1	8.5	7.7	N/A	N/A
National Institutes of Health	3,124.5	3,478.2	3,910.4	4,428.1	4,587.6	5,314.7	5,680.7	6,061.8	6,335.8	6,857.2	7,345.6
Off of Asst Secy for Hlth 7/	13.9	16.6	18.1	16.9	15.8	18.9	19.4	25.6	5.8	9.6	2.3
Office of the Secretary	13.1	14.4	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.9	5.0
Social Security Administration	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8	11.8	19.1	23.7
Dept of Housing & Urban Dev	10.3	11.3	6.3	6.5	5.3	5.5	6.3	6.1	6.6	11.4	13.2
Dept of the Interior, total	351.5	357.7	380.2	369.3	367.9	382.1	392.5	441.9	475.2	549.3	520.2
Bureau of Land Management	2.4	2.0	1.8	2.8	2.1	2.1	2.2	2.0	2.1	3.7	7.9
Bureau of Mines	81.1	79.4	97.2	86.5	81.6	85.2	86.2	93.2	89.9	103.4	76.8
Bureau of Reclamation	9.0	8.8	9.0	11.2	9.7	10.2	3.7	3.5	5.3	7.8	10.6
Geological Survey	152.1	154.7	204.0	210.5	211.2	216.5	225.3	266.9	293.2	335.8	321.1
Minerals Management Service	-	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.6	5.7
National Park Service	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	25.2	29.0
Office of the Secretary	.5	7.4	.1	1.9	1.0	-	.1	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	1.5	1.5	.8	2.0	2.3	1.0	1.0	.7	.7	1.0	2.9
Office of Water Rsch & Tech	10.1	1.2	3.6	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	83.6	87.5	48.3	37.9	41.7	47.6	53.5	53.9	62.0	69.8	66.3
Department of Justice, total	16.3	20.7	17.9	19.3	22.3	19.8	17.4	17.5	19.9	21.3	18.0
Drug Enforcement Admin	1.3	.9	.7	.5	.8	.7	.6	.5	.4	.3	.8
Federal Prison System	.9	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.8	1.7
Immigration & Naturalization Svc	.3	.3	.3	.2	.2	.2	.3	.1	.4	.4	.4
Office of Justice Programs	13.4	18.0	15.7	17.2	18.5	16.7	14.4	14.8	17.3	18.8	15.2
Office of Legal Policy	0.4	0.2	-	0.3	0.2	0.1	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-1508. Federal obligations for research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Department of Labor, total	17.2	17.9	16.3	12.4	9.5	20.4	26.7	22.2	21.6	24.8	30.0
Bureau of Labor Statistics	.3	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.4	7.7
Employment Standards Admin	1.4	1.4	.9	.0	-	1.0	.1	.1	.1	.2	.1
Employment & Training Admin ...	8.7	7.9	6.1	3.5	3.5	5.4	6.8	6.1	6.0	6.7	5.6
Labor-Management Relations and Cooperative Programs 8/..	N/A	N/A	.3	.3	.2	.3	.4	.3	-	-	-
Labor-Management Svcs Admin 8/.	.7	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupational Safety & Hlth Administration	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	3.3	3.3
Office of the Secretary	.9	1.5	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.4	10.3
Pension Benefit Guaranty Corporation	.3	.3	.3	.2	.1	.3	.3	.3	.3	.4	.5
Pension & Welfare Benefit Admin	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6
Department of State, total	1.5	1.5	1.6	1.5	1.5	3.0	4.2	4.7	4.7	8.9	9.0
Dept of Transportation, total ...	66.7	72.6	77.7	71.2	68.2	68.6	91.0	120.3	118.9	145.6	136.0
Coast Guard	1.7	1.2	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.2	7.1
Federal Aviation Admin	7.0	12.5	15.0	17.3	14.0	11.1	13.3	23.6	26.1	28.0	25.8
Federal Highway Administration	5.3	7.3	6.1	6.3	14.7	20.5	43.5	56.4	57.4	66.9	52.0
Federal Railroad Admin	3.1	2.8	12.3	11.4	12.5	10.4	8.2	7.5	8.5	19.3	21.4
Maritime Administration 9/.....	6.6	6.2	8.6	8.0	6.8	3.3	.5	-	.9	1.0	2.0
Nat'l Highway Traffic Safety Administration	21.3	21.4	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	23.7
Office of the Secretary	.3	.3	.9	.9	.4	.4	.7	1.3	1.7	.6	.8
Rsch & Special Programs Admin .	2.1	2.6	1.8	.5	.3	.2	.4	.7	2.4	2.3	3.0
Urban Mass Trans Admin	19.4	18.3	1.0	.5	-	-	-	-	-	-	-
Dept of the Treasury, total	8.1	10.2	10.6	18.3	17.7	17.4	15.9	16.3	18.7	21.6	22.0
Bureau of Engraving & Printing	2.8	2.0	2.2	3.4	3.1	2.8	1.2	1.4	1.4	3.1	3.3
Internal Revenue Service	5.3	7.9	8.1	14.7	14.0	14.1	13.7	14.1	16.5	17.5	17.5
Office of Protective Research .	-	.3	.1	.2	.4	.2	.4	.4	.5	.5	.5
United States Customs Service .	.0	-	.1	.1	.2	.2	.7	.4	.4	.5	.7
Department of Veterans Affairs ..	123.0	146.1	171.9	209.1	169.9	190.3	196.1	213.7	215.6	220.9	198.5
Other Agencies											
Advisory Comm on Intergov'tl Relations	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.5	1.4
Agency for International Dev 10/.	127.9	156.7	167.0	159.8	184.9	154.0	135.1	219.1	305.2	290.0	299.1
Appalachian Regional Commission .	.3	.2	.4	.2	.2	.1	.2	.8	.4	.3	-
Consumer Product Safety Comm	.1	.3	1.1	1.4	1.1	.6	.1	.5	.4	1.1	1.0
Environmental Protection Agency .	243.4	174.6	172.0	214.6	217.8	277.2	267.9	273.3	315.2	342.7	395.4
Federal Communications Comm	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.6	1.4
Fed Emergency Management Agency .	9.2	3.3	6.1	2.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 11/.	2.7	3.0	2.6	2.8	3.3	3.4	3.4	N/A	N/A	N/A	N/A
Federal Trade Commission	1.2	1.4	1.6	1.7	1.8	.5	.4	.4	.5	.5	.5
General Services Admin	.5	.2	.4	.4	.9	1.6	2.3	.5	.7	-	-
International Trade Commission ..	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	10.9	11.8
Library of Congress	.9	1.3	2.1	2.1	1.6	1.5	1.6	1.6	1.5	1.6	1.6
Nat'l Aeronautics & Space Admin .	1,407.1	1,544.8	1,709.2	1,783.6	2,069.0	2,269.2	2,331.6	2,878.8	3,060.7	3,463.9	4,175.8
National Archives & Records Admin	N/A	N/A	N/A	.2	-	.7	.5	.2	.3	.6	.5
National Science Foundation	973.2	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5	1,532.8	1,670.4	1,689.5	1,847.0	2,101.6
Nuclear Regulatory Commission ...	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	229.6	250.9
Office of Thrift Supervision 11/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1	4.1	3.3	3.5
Smithsonian Institution	52.4	56.0	63.6	71.1	63.3	71.5	75.1	80.2	84.0	98.2	111.7
Tennessee Valley Authority	12.7	12.3	14.3	14.4	17.8	17.7	18.5	14.6	21.7	27.7	23.4
US Arms Control & Disarmament Agency	1.3	.8	1.2	1.1	.9	.4	.8	1.2	.2	.3	2.0
US Information Agency 12/.....	-	.0	1.4	.1	1.6	-	.1	-	.5	.4	.7

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

7/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

8/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

9/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

10/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

11/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

12/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-151A. Federal obligations for basic research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	1,980.1	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3
Departments											
Department of Agriculture, total	118.4	137.3	142.7	145.6	154.2	171.4	204.5	242.7	256.4	275.7	314.1
Agricultural Cooperative Svc 1/	.2	-	-	-	-	-	N/A	N/A	N/A	-	-
Agricultural Research Svc 2/	72.1	82.9	84.6	85.5	91.2	101.7	125.6	142.4	148.2	157.8	186.4
Cooperative State Rsch Svc 3/	25.8	31.4	34.0	34.0	38.4	43.1	48.4	65.6	70.5	75.2	83.9
Econ, Stat & Coop Svc 4/	N/A	N/A	N/A	N/A	N/A	N/A	3.8	3.9	6.4	-	N/A
Economic Research Service	4.7	4.6	4.8	5.4	3.2	3.6	N/A	N/A	N/A	N/A	N/A
Economics & Statistics Svc 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.6	N/A
Forest Service	15.7	18.3	19.3	20.7	21.1	22.6	26.7	30.8	31.4	33.7	38.1
Off of Internat'l Cooperation & Dev	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	2.3	1.7
Office of Transportation 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	.5
Nat'l Agricultural Stat svc	.1	.1	.1	.0	.3	.4	N/A	N/A	N/A	N/A	-
Department of Commerce, total	15.7	7.9	6.6	7.7	8.1	11.0	12.3	11.8	11.9	15.9	16.2
Bureau of the Census	.3	.3	.2	.2	.2	.2	.2	.5	.6	.5	.4
Economic Development Admin	-	-	-	-	-	1.7	1.0	2.7	.5	.3	.2
Maritime Administration 7/	.4	2.7	1.8	1.2	1.7	1.2	1.2	2.7	2.0	2.0	N/A
Minority Business Dev Agency	-	-	-	-	-	-	.2	-	-	-	-
Nat'l Inst of Standards & Tech	14.5	4.9	4.5	6.2	5.4	5.8	6.9	5.9	8.8	12.8	15.6
Nat'l Fire Prevention & Control Administration	N/A	-	-	-	.7	2.1	2.7	N/A	N/A	N/A	N/A
Nat'l Telecomm & Info Admin	N/A	N/A	N/A	N/A	N/A	N/A	.1	-	-	-	-
Office of Telecommunications	.5	-	.2	.2	.1	.1	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	-	-	-	-	-	-	.3	-
Department of Defense, total	322.1	328.8	306.7	302.9	300.1	326.9	373.3	410.4	471.5	540.3	604.3
Department of the Army	78.5	82.5	76.9	76.3	71.7	81.4	99.0	104.1	115.0	132.2	148.1
Department of the Navy	114.6	124.6	112.7	114.2	118.7	129.7	153.8	172.1	192.1	214.9	238.0
Department of the Air Force	84.5	86.4	79.9	77.5	78.9	83.9	84.8	95.1	105.0	108.2	125.8
Defense agencies	44.5	35.4	37.2	34.9	30.7	31.9	35.6	39.1	59.3	85.1	92.4
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.6	17.6	20.6
Department of Energy 8/	N/A	N/A	N/A	N/A	N/A	N/A	389.5	440.5	463.0	523.1	586.3
Dept of Hlth, Education, & Welfare, total	574.5	665.4	667.3	850.1	903.7	986.2	1,119.5	1,292.3	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	52.6	53.3	66.2	52.6	62.7	79.9	N/A	N/A	N/A
Health Resources Admin	N/A	-	7.4	7.4	-	3.1	-	-	N/A	N/A	N/A
Health Services Administration	N/A	N/A	1.5	.6	1.2	.3	2.0	.6	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	63.6	75.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	11.4	4.8	1.9	8.1	11.9	10.3	N/A	N/A	N/A
National Institutes of Health	503.7	585.7	593.0	775.3	828.5	920.3	1,032.8	1,181.1	N/A	N/A	N/A
Off of Asst Secy for Hlth	-	-	-	-	-	-	4.0	5.1	N/A	N/A	N/A
Office of Education	6.8	3.7	.1	.2	-	-	-	-	N/A	N/A	N/A
Office of International Health	-	-	.7	2.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	4.2	4.1	4.9	4.0	5.1	N/A	N/A	N/A
Social Security Administration	.4	.6	.8	1.6	1.8	-	-	-	N/A	N/A	N/A
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,576.0	1,762.7	1,900.4
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94.6	104.7	116.3
Health Services Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.0	2.0	3.8
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,463.7	1,642.3	1,766.8
Off of Asst Secy for Hlth 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.6	11.6	12.4
Office of the Secretary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	2.0	.6

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-151A. Federal obligations for basic research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of the Interior, total	41.7	43.1	48.7	48.7	54.9	54.3	63.6	65.9	72.5	71.6	80.7
Bureau of Land Management	-	-	-	-	-	-	-	-	-	-	-
Bureau of Mines	6.5	7.8	6.9	5.6	1.9	.8	4.0	8.6	13.7	11.5	13.6
Bureau of Reclamation	.1	.1	.1	.1	.0	.1	.1	.2	.1	.2	.1
Geological Survey	20.6	21.5	27.7	27.2	38.6	39.5	40.3	46.3	49.0	47.3	53.5
National Park Service	.7	.9	.8	1.0	.6	.6	-	-	-	-	-
Office of Coal Research	-	-	.1	-	-	-	-	-	-	-	-
Office of the Secretary	-	-	.7	-	-	1.0	3.2	1.7	1.4	2.2	1.5
Office of Water Rsch & Tech	4.7	4.2	3.2	3.7	3.9	3.6	2.9	4.6	4.6	6.6	7.6
US Fish & Wildlife Service	9.1	8.6	9.3	11.0	9.9	8.8	13.1	4.5	3.7	3.8	3.9
Department of Justice, total	-	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6
Office of Justice Programs	-	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6
Department of Labor, total	2.5	1.1	1.3	1.2	.9	1.0	.7	3.7	2.3	3.9	3.7
Bureau of Labor Statistics	1.4	-	-	-	-	-	-	-	-	-	-
Employment & Training Admin	.6	.4	.4	.6	.5	.6	.6	3.5	1.8	3.9	3.7
Labor-Management Svcs Admin 10/	.5	.7	.9	.6	.3	.3	.1	.2	.5	-	-
Department of State, total	-	-	-	-	1.5	-	-	-	.0	-	-
Departmental funds	-	-	-	-	-	-	-	-	.0	-	-
Dept of Transportation, total	.3	.5	.2	.3	.1	-	-	-	-	-	1.2
Coast Guard	.0	.0	.1	.2	.1	-	-	-	-	-	.3
Federal Highway Administration	.1	.2	-	-	-	-	-	-	-	-	-
Federal Railroad Admin	.0	-	-	-	-	-	-	-	-	-	-
Maritime Administration 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7
Office of the Secretary	.2	.4	.0	.1	-	-	-	-	-	-	-
Rsch & Special Programs Admin	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	.3
Dept of the Treasury, total	-	-	-	-	-	-	-	-	.2	1.7	2.3
Internal Revenue Service	-	-	-	-	-	-	-	-	.2	1.7	2.3
Department of Veterans Affairs	3.1	3.2	3.2	3.6	3.9	8.9	9.1	8.9	9.5	14.3	15.0
Other agencies											
Action	-	-	-	.1	.1	.0	.1	-	-	-	-
Agency for International Dev 11/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-
Atomic Energy Commission	276.9	268.3	275.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civil Service Commission	.1	.1	.2	.2	.6	.3	.4	N/A	N/A	N/A	N/A
Consumer Product Safety Comm	N/A	-	-	-	-	-	-	-	-	-	.1
Energy Rsch & Development Admin 12/	N/A	N/A	N/A	269.5	312.8	345.8	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency	6.1	6.1	9.0	9.5	17.4	13.7	8.3	6.0	10.1	13.6	10.5
Fed Emergency Management Agency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.8	3.0	2.6	2.6
Federal Trade Commission	-	-	-	-	-	.3	.4	.5	.4	1.5	.9
General Services Admin	-	-	.0	.5	.3	.1	.1	1.8	.0	-	-
Library of Congress	-	-	-	-	-	.2	.1	.1	.1	.1	.2
Nat'l Aeronautics & Space Admin	327.3	331.6	350.3	305.9	309.3	293.2	413.8	479.7	512.8	559.1	531.1
National Archives & Records Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Economic Opportunity	3.2	4.2	.9	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Office of Science and Technology	.4	.4	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Telecomm Policy	-	-	-	-	.4	.4	-	-	N/A	N/A	N/A
Smithsonian Institution	15.1	21.3	24.0	24.7	24.8	25.7	29.7	34.9	36.9	41.0	44.9
Spec Action Off for Drug Abuse Prevention	N/A	-	1.0	-	-	-	N/A	N/A	N/A	N/A	N/A
Tennessee Valley Authority	-	-	-	-	-	-	3.5	3.8	4.1	4.6	4.8
US Information Agency 13/	-	-	-	-	-	-	-	-	-	-	.1

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

3/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

5/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

6/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

10/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

11/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

12/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

13/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-151B. Federal obligations for basic research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,445.9	13,208.0
Departments											
Department of Agriculture, total	330.8	362.0	392.6	445.4	432.9	445.5	480.6	484.9	519.2	562.6	598.0
Agricultural Research Svc 1/	192.9	215.3	240.6	250.2	247.7	253.4	271.1	282.7	294.0	317.5	336.0
Cooperative State Rsch Svc 2/	91.3	98.8	99.6	141.5	131.7	132.8	145.8	142.6	153.7	170.3	188.5
Economic Research Service	3.9	3.9	4.4	4.6	4.5	6.3	6.7	6.9	7.1	7.7	8.7
Forest Service	38.7	38.8	41.2	44.1	42.2	49.4	51.6	50.0	60.3	63.8	62.1
Off of Internat'l Cooperation & Dev	1.1	2.3	3.6	1.5	3.7	1.9	3.6	1.7	2.6	1.8	1.1
Office of Transportation 3/	.5	.5	.6	.6	.5	.5	.5	-	-	-	-
Nat'l Agricultural Stat svc	2.3	2.5	2.7	2.8	2.6	1.1	1.2	1.0	.9	1.0	1.0
Department of Commerce, total	16.9	19.2	20.6	23.2	26.5	25.8	30.9	29.1	31.4	31.3	34.1
Bureau of the Census	.3	.3	.4	.4	.5	.7	1.3	1.2	2.8	1.2	1.5
Economic Development Admin	-	.5	-	-	-	-	-	-	-	-	-
Nat'l Inst of Standards & Tech	16.5	18.4	20.2	22.1	25.7	25.1	26.3	27.9	28.6	30.1	32.6
Nat'l Oceanic & Atmospheric Administration	-	-	-	-	-	-	3.2	-	-	-	-
Office of the Secretary	.0	.0	-	.8	.3	-	-	-	-	-	-
Department of Defense, total	686.7	785.6	847.9	861.4	923.9	907.6	876.9	947.9	947.6	1,140.4	1,028.0
Department of the Army	187.7	208.3	222.1	240.8	248.5	217.0	165.7	187.2	185.1	178.2	192.5
Department of the Navy	280.3	305.4	315.8	343.1	337.3	354.3	341.8	354.0	365.0	397.3	424.6
Department of the Air Force	145.8	164.2	192.4	198.3	216.5	221.6	196.4	202.8	197.0	185.3	212.0
Defense agencies	72.9	107.7	117.6	79.2	121.7	114.8	173.0	203.9	200.5	379.6	198.9
Department of Education	14.2	14.2	12.2	14.6	4.5	3.1	4.4	4.4	4.9	7.7	6.8
Department of Energy 4/	642.2	767.7	830.4	942.6	959.7	1,068.5	1,184.8	1,410.9	1,504.8	1,725.8	1,730.6
Dept of Hlth & Human Svcs, total	2,144.7	2,475.4	2,814.5	3,232.5	3,338.8	3,827.9	4,081.4	4,388.0	4,649.0	5,041.7	5,419.1
Administration for Children and Families 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-
Alcohol, Drug Abuse & Mental Health Administration	117.3	145.0	170.8	196.8	203.4	232.2	265.8	308.0	386.2	431.1	456.4
Health Resources & Svc's Admin	.6	.8	.8	.9	1.0	1.3	1.1	1.2	1.2	1.5	1.6
Human Development Services 5/	.4	-	-	-	-	-	-	-	-	N/A	N/A
National Institutes of Health	2,020.7	2,313.0	2,624.8	3,018.0	3,118.6	3,575.5	3,795.1	4,053.3	4,261.7	4,609.1	4,961.1
Off of Asst Secy for Hlth 6/	5.7	16.6	18.1	16.9	15.8	18.9	19.4	25.6	-	-	-
Dept of the Interior, total	76.5	103.0	125.9	138.3	133.0	134.9	126.5	188.9	205.4	233.3	210.3
Bureau of Land Management	-	-	-	-	-	-	-	-	-	1.0	3.0
Bureau of Mines	15.9	23.5	40.5	49.9	44.9	45.6	32.1	43.9	40.6	44.3	33.7
Bureau of Reclamation	.1	.1	.1	.3	.1	.1	.1	.0	.1	.1	-
Geological Survey	52.6	64.7	78.9	80.5	83.4	84.9	89.5	140.2	159.1	182.2	167.9
Office of the Secretary	.5	7.4	.1	1.9	1.0	-	-	-	-	-	-
Office of Water Rsch & Tech	3.3	.5	.4	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	4.1	6.9	5.9	5.7	3.6	4.3	4.8	4.8	5.6	5.7	5.7
Department of Justice, total	3.1	3.6	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.2	5.8
Office of Justice Programs	3.1	3.6	4.7	4.2	5.3	8.1	7.6	6.8	8.8	6.2	5.8

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-1518. Federal obligations for basic research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Department of Labor, total	6.5	5.3	5.0	3.3	0.9	1.4	0.4	0.3	0.3	0.3	0.2
Employment & Training Admin ...	6.5	5.3	5.0	3.3	.9	1.4	.4	.3	.3	.3	.2
Department of State, total	-	-	-	-	-	2.6	3.1	3.4	3.5	7.7	7.8
Dept of Transportation, total ...	1.0	.9	3.5	1.1	.6	.2	-	-	-	-	-
Coast Guard	-	.4	-	-	-	-	-	-	-	-	-
Maritime Administration 7/.....	1.0	.5	3.5	1.1	.6	.2	-	-	-	-	-
Dept of the Treasury, total	2.2	3.5	4.0	4.8	5.1	4.7	4.8	3.4	3.4	3.6	3.6
Bureau of Engraving & Printing	-	.6	.8	.3	.4	.1	.1	.5	-	-	-
Internal Revenue Service	2.2	2.9	3.2	4.4	4.5	4.4	4.7	2.9	3.4	3.6	3.6
Office of Protective Research .	-	-	-	-	.2	.2	.1	-	-	-	-
Department of Veterans Affairs ..	12.9	14.1	15.8	15.4	14.8	17.2	17.3	16.6	16.2	15.8	15.8
Other agencies											
Agency for International Dev 8/..	-	4.1	3.0	1.7	4.3	2.8	3.0	3.1	5.0	10.6	10.2
Environmental Protection Agency .	32.7	22.2	29.6	38.6	38.5	31.1	27.2	50.7	73.6	96.7	114.5
Fed Emergency Management Agency .	1.4	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Federal Trade Commission	1.0	1.2	1.3	1.5	1.6	-	-	-	-	-	-
General Services Admin	-	-	.1	.1	-	-	-	-	-	-	-
Library of Congress	.1	.3	.6	.6	.4	.4	.4	.4	.3	.3	.3
Nat'l Aeronautics & Space Admin .	535.7	617.0	754.5	750.9	916.7	1,013.7	1,112.7	1,417.4	1,636.9	1,729.5	1,944.4
National Archives & Records Admin	N/A	N/A	N/A	.1	-	.5	.2	.1	.2	.4	.2
National Science Foundation	916.1	999.1	1,132.3	1,261.8	1,275.2	1,371.2	1,433.2	1,562.6	1,586.3	1,732.1	1,965.3
Smithsonian Institution	52.4	56.0	63.6	71.1	63.3	71.5	75.1	80.2	86.0	98.2	111.7
Tennessee Valley Authority	4.6	5.6	5.1	5.5	7.3	3.9	3.2	2.9	4.7	1.8	1.3

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

2/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

3/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

4/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

5/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

6/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-152A. Federal obligations for applied research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	3,143.0	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5
Departments											
Department of Agriculture, total	173.7	199.9	211.4	219.5	247.8	270.9	319.6	351.8	375.5	381.8	426.9
Agricultural Cooperative Svc 1/	.8	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7
Agricultural Marketing Svc 2/	N/A	-	-	-	-	-	-	-	.4	1.0	.9
Agricultural Research Svc 3/	89.8	101.0	105.1	107.9	112.9	125.9	155.4	161.3	172.7	170.8	181.5
Cooperative State Rsch Svc 4/	42.0	51.2	55.4	55.4	62.7	70.3	78.9	91.9	102.1	109.0	115.5
Econ, Stat & Coop Svc 5/	N/A	N/A	N/A	N/A	N/A	N/A	25.9	28.8	29.1	-	N/A
Economic Research Service	10.9	11.4	12.2	12.7	18.1	20.4	N/A	N/A	N/A	N/A	N/A
Economics & Statistics Svc 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24.5	N/A
Forest Service	29.5	34.6	36.8	41.6	52.2	51.9	59.4	69.8	71.1	72.3	81.8
National Agricultural Library	.4	.2	.3	.1	.0	.0	-	-	-	-	-
Off of Internat'l Cooperation & Dev	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	2.6	1.9
Office of Transportation 2/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	.3
Nat'l Agricultural Stat Svc	.4	.4	.4	.4	.7	1.1	N/A	N/A	N/A	N/A	7.5
Department of Commerce, total	98.0	135.5	123.5	121.5	136.3	144.7	163.8	181.0	207.6	238.5	233.2
Bureau of the Census	1.7	1.5	.4	.5	.4	2.0	1.8	1.8	1.2	1.4	2.6
Economic Development Admin	1.7	.8	.9	.9	1.1	.4	1.5	3.2	8.0	2.2	1.6
Maritime Administration 7/	12.8	17.9	4.2	4.6	4.0	3.8	2.5	4.3	10.2	10.1	N/A
Minority Business Dev Agency	-	-	-	.2	.9	.4	.5	-	-	-	-
Nat'l Inst of Standards & Tech	14.2	25.0	26.6	26.5	29.4	31.7	38.0	42.6	43.0	46.1	50.6
Nat'l Fire Prevention & Control Administration	N/A	-	-	-	.0	1.1	1.8	N/A	N/A	N/A	N/A
Nat'l Oceanic & Atmospheric Administration	65.6	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5
Nat'l Telecomm & Info Admin	N/A	N/A	N/A	N/A	N/A	N/A	1.9	1.1	2.4	9.6	9.9
Office of Telecommunications	1.6	-	2.0	1.5	.5	.2	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	-	-	-	-	-	-	-	.1	.2	-
Patent and Trademark Office	.4	-	-	.2	.3	.2	-	-	-	-	-
US Travel & Tourism Admin	-	-	.4	-	-	-	-	-	-	-	-
Department of Defense, total	987.1	1,175.8	1,129.4	1,131.5	1,130.9	1,200.6	1,342.6	1,413.6	1,542.6	1,721.4	1,996.6
Department of the Army	231.4	289.1	300.2	290.1	264.7	281.0	299.0	305.7	333.6	347.1	388.4
Department of the Navy	239.3	281.8	273.7	287.1	287.8	308.3	343.6	354.2	375.2	396.2	460.0
Department of the Air Force	237.5	255.9	261.1	264.1	276.9	298.4	341.0	353.6	387.2	429.1	491.5
Defense agencies	275.9	345.0	291.2	287.3	299.9	312.2	357.8	392.5	446.6	549.1	656.7
Defense Civil Preparedness Agency	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.8	70.0	33.2
Department of Energy 8/	N/A	N/A	N/A	N/A	N/A	N/A	501.8	661.7	668.9	754.2	827.3
Dept of Hlth, Education, & Welfare, total	657.4	766.7	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	69.6	102.3	73.2	84.1	89.3	98.8	N/A	N/A	N/A
Centers for Disease Control	N/A	N/A	38.3	44.9	42.6	49.6	55.3	60.1	N/A	N/A	N/A
Food & Drug Administration	25.6	30.4	30.2	43.5	35.9	37.1	42.9	64.1	N/A	N/A	N/A
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	30.0	19.4	N/A	N/A	N/A
Health Resources Admin	N/A	-	3.7	2.3	16.7	27.9	7.4	5.0	N/A	N/A	N/A
Health Services Administration	N/A	N/A	8.6	8.7	9.4	9.2	7.5	10.0	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	115.6	125.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	4.7	4.7	2.2	5.7	15.2	16.3	N/A	N/A	N/A
National Institutes of Health	409.8	513.7	539.1	714.3	775.7	847.4	935.9	1,051.5	N/A	N/A	N/A
Off of Asst Secy for Educ	-	-	-	-	.6	1.0	1.0	1.3	N/A	N/A	N/A
Off of Asst Secy for Hlth	-	-	-	-	-	-	24.6	27.5	N/A	N/A	N/A
Office of Child Development	7.9	12.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Education	56.0	32.3	6.6	6.3	5.3	21.4	11.9	13.3	N/A	N/A	N/A
Off of Human Development Svcs	-	-	10.1	17.2	7.1	34.6	46.5	42.9	N/A	N/A	N/A
Office of the Secretary	-	-	-	25.6	22.2	18.8	16.0	25.1	N/A	N/A	N/A
Social & Rehabilitation Svc	32.1	39.9	48.3	8.9	9.6	18.6	N/A	N/A	N/A	N/A	N/A
Social Security Administration	10.5	13.0	17.7	17.8	20.8	9.1	11.2	12.9	N/A	N/A	N/A

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-152A. Federal obligations for applied research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,439.7	1,570.1	1,591.9
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118.9	128.8	121.4
Centers for Disease Control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	76.3	87.3	74.8
Food & Drug Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61.0	75.4	71.4
Health Care Financing Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.8	45.7	38.6
Health Resources Admin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.9	5.1	5.0
Health Services Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.2	6.0	6.4
Human Development Services 9/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.9	19.1	39.5
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,066.4	1,145.1	1,181.5
Off of Asst Secy for Hlth 10/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.3	14.1	16.3
Office of the Secretary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.6	22.0	18.9
Social Security Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.3	21.4	18.0
Dept of Housing & Urban Dev	10.5	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7
Dept of the Interior, total	95.1	104.3	111.4	94.8	179.1	205.1	192.4	217.6	266.9	282.8	289.2
Bonneville Power Admin 8/	.3	.3	.3	.4	.5	.5	N/A	N/A	N/A	N/A	6.1
Bureau of Land Management	.8	.8	.7	.6	.7	.7	.8	1.0	1.1	1.3	1.5
Bureau of Mines	32.2	32.8	34.6	24.9	51.0	72.5	48.3	48.4	65.4	71.3	54.4
Bureau of Reclamation	9.1	9.9	9.3	6.8	7.3	7.9	9.2	10.4	11.3	12.7	13.3
Geological Survey	21.3	30.1	35.1	39.0	68.0	70.8	77.2	87.4	96.1	98.5	115.8
Heritage Conservation & Recreation Svc	.2	.0	.0	.0	.0	.0	.0	-	-	-	-
National Park Service	.4	.4	.7	1.5	7.7	8.7	7.5	7.7	8.9	8.2	10.4
Office of Coal Research	5.0	4.2	5.6	-	-	-	-	-	-	-	-
Office of the Secretary	.2	.3	3.4	.4	1.3	.1	1.4	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	N/A	N/A	N/A	N/A	N/A	N/A	-	2.2	5.0	7.5	5.8
Office of Water Rsch & Tech	13.9	14.6	10.2	11.2	11.6	10.4	9.4	10.8	13.2	11.8	8.2
US Fish & Wildlife Service	11.9	10.9	11.5	9.9	31.0	33.7	38.6	49.7	65.9	71.4	73.9
Department of Justice, total	6.5	12.4	4.9	16.5	9.4	13.8	12.5	31.0	20.9	19.2	14.9
Drug Enforcement Admin	1.5	1.2	1.6	1.7	.9	.5	.9	.5	.7	.8	.4
Federal Prison System	-	-	-	-	-	-	.1	.7	.5	.9	1.7
Immigration & Naturalization Svc	-	-	-	-	.0	.1	.1	.2	.1	.2	.1
Office of Justice Programs	5.0	11.2	3.4	14.8	8.5	13.2	11.3	28.6	18.0	16.1	12.0
Office of Legal Policy	-	-	-	-	-	-	-	1.1	1.6	1.3	.7
Department of Labor, total	11.1	12.2	12.0	16.0	14.4	17.0	18.0	22.0	39.8	32.6	54.5
Bureau of Labor Statistics	1.5	2.5	.8	.6	.7	.8	.9	.8	.9	.9	.3
Employment Standards Admin	1.5	1.6	1.3	.9	3.2	4.3	4.4	3.7	5.3	4.9	3.2
Employment & Training Admin	7.7	7.8	8.3	11.1	6.6	6.9	5.8	11.4	24.2	16.2	45.1
Labor-Management Svcs Admin 11/	-	-	-	.6	.5	.4	3.2	2.6	2.7	2.8	1.8
Occupational Safety & Hlth Administration	.3	-	.4	.5	1.4	2.9	3.4	1.3	5.1	6.3	3.0
Office of the Secretary	.2	.2	1.2	2.3	2.0	1.8	.2	2.2	1.6	1.4	1.1
Pension Benefit Guaranty Corporation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.1
Department of State, total	29.0	25.7	24.6	17.8	21.0	25.1	38.3	49.1	2.6	2.0	1.6
Agency for Internat'l Dev 12/	28.6	25.2	23.9	16.8	20.2	24.0	36.2	46.6	N/A	N/A	N/A
Departmental funds	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.6	2.0	1.6
Dept of Transportation, total	96.7	97.6	77.1	61.5	53.8	31.1	51.8	66.5	67.0	82.4	87.4
Coast Guard	4.7	5.1	5.1	6.6	4.2	2.6	2.5	2.3	10.9	8.1	14.7
Federal Aviation Admin	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2
Federal Highway Administration	23.7	20.1	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1
Federal Railroad Admin	17.9	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2
Maritime Administration 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.9
Nat'l Highway Traffic Safety Administration	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4
Office of the Secretary	8.5	12.5	8.9	15.1	14.4	3.9	4.2	4.1	.6	.6	.7
Rsch & Special Programs Admin	N/A	N/A	N/A	N/A	N/A	N/A	-	.1	5.0	5.5	4.9
Urban Mass Trans Admin	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	9.3

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-152A. Federal obligations for applied research by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Dept of the Treasury, total	0.4	0.5	0.4	0.5	0.4	1.5	2.1	4.1	4.5	4.0	2.9
Bureau of Alcohol, Tobacco, & Firearms	N/A	-	-	-	-	-	.4	.4	.7	.3	.1
Bureau of Engraving & Printing	.4	.5	.4	.5	.4	1.5	1.7	1.9	.6	1.3	.9
Internal Revenue Service	-	-	-	-	-	-	-	1.8	3.3	2.2	1.8
United States Customs Service .	-	-	-	-	-	-	-	-	-	.1	.1
Department of Veterans Affairs ..	59.0	63.9	66.5	75.2	83.3	76.2	83.2	90.5	101.8	103.6	112.7
Other agencies											
Action	.1	-	-	.0	.1	.0	.0	.2	-	-	-
Advisory Comm on Intergov't Relations	.5	.7	.9	1.1	1.2	1.0	1.5	1.7	1.7	2.2	2.2
Agency for International Dev 12/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9	79.7	86.4
Appalachian Regional Commission .	3.0	-	-	-	-	.7	.6	.3	.7	.6	.3
Atomic Energy Commission	152.1	148.8	149.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civil Service Commission	.2	.3	.3	1.1	1.0	.8	.7	N/A	N/A	N/A	N/A
Community Services Admin	N/A	N/A	N/A	.5	.2	-	1.0	2.0	1.8	1.3	1.9
Consumer Product Safety Comm	N/A	-	.3	2.6	3.0	3.5	3.7	.9	1.8	1.6	.2
Energy Rsch & Development Admin 13/.....	N/A	N/A	N/A	195.2	280.7	400.7	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency .	47.7	45.0	65.3	86.8	124.3	141.7	197.0	246.7	248.9	231.5	207.8
Federal Communications Comm	.6	.7	1.1	.9	1.1	1.5	2.0	2.4	2.9	3.4	1.8
Fed Emergency Management Agency .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	6.7	6.7	6.4
Federal Energy Administration ...	N/A	N/A	N/A	-	.2	1.0	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 14/.	.4	.5	.5	.7	.7	.8	1.7	1.0	.9	1.2	1.0
Federal Trade Commission	.4	.6	.7	.9	.9	.6	.8	.9	1.1	1.5	.2
General Services Admin	.1	.1	.3	.9	.6	.3	.3	.4	.1	.1	.4
International Trade Commission ..	-	-	-	-	-	1.5	2.6	3.1	3.4	2.1	3.4
Interstate Commerce Commission ..	-	-	-	-	-	.1	.1	.3	.2	.1	-
Library of Congress	1.0	1.2	1.4	.4	.4	.3	.3	.4	.5	.5	.7
Nat'l Aeronautics & Space Admin .	595.4	433.0	443.6	539.8	625.8	929.6	792.3	865.4	938.4	1,050.5	876.0
National Science Foundation	45.7	59.6	71.5	105.0	84.0	72.1	63.4	65.5	66.8	58.4	58.9
Nuclear Regulatory Commission ...	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7
Office of Economic Opportunity ..	59.9	51.1	31.4	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Office of Emergency Preparedness	.6	.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Personnel Management ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	1.4	2.6	3.4
Office of Science and Technology	.6	.6	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Telecomm Policy	.2	1.2	.6	.3	2.1	1.5	-	-	N/A	N/A	N/A
Postal Service	1.0	-	-	-	-	-	-	-	-	-	-
Small Business Administration ...	-	-	-	-	.2	.1	.5	-	-	-	-
Spec Action Off for Drug Abuse Prevention	N/A	-	11.0	11.1	3.8	-	N/A	N/A	N/A	N/A	N/A
Tennessee Valley Authority	7.5	8.3	12.5	11.6	14.7	16.5	19.3	9.7	12.4	11.2	9.4
US Arms Control & Disarmament Agency	1.4	1.5	1.7	1.1	1.0	1.4	1.8	2.5	2.7	3.0	1.6
US Information Agency 15/.....	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.0

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

6/ Includes programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980

7/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

8/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

9/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

10/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

11/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

12/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

13/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

14/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

15/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-152B. Federal obligations for applied research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,997.9	9,176.4	10,163.3	10,453.3	11,626.0	12,475.5
Departments											
Department of Agriculture, total	435.7	455.5	442.2	465.6	463.5	473.4	504.6	517.3	550.1	614.2	613.8
Agricultural Cooperative Svc 1/	1.7	2.1	2.2	2.9	2.6	2.7	2.7	2.8	2.7	2.9	3.0
Agricultural Marketing Svc 2/..	1.0	1.1	1.2	1.3	1.3	1.2	1.3	1.3	1.7	2.0	2.1
Agricultural Research Svc 3/...	186.2	202.6	183.7	191.8	188.3	201.1	208.2	209.4	218.2	235.6	249.4
Animal & Plant Health Inspection Service	N/A	N/A	N/A	N/A	4.2	4.9	5.6	7.4	8.0	8.7	9.2
Cooperative State Rsch Svc 4/..	127.7	133.5	136.2	142.8	137.4	138.0	152.6	164.7	170.5	206.4	184.6
Economic Research Service	35.3	34.9	39.3	41.7	40.1	38.5	41.4	42.6	43.5	46.7	53.7
Federal Grain Inspection Svc ..	N/A	N/A	N/A	.8	.6	.7	.6	.8	.2	.3	.3
Forest Service	69.0	65.1	63.9	65.7	67.5	73.5	79.9	77.5	93.5	99.0	96.4
Human Nutrition Info Service ..	8.5	8.2	6.0	6.7	12.8	6.8	8.2	8.4	9.0	10.0	12.7
Off of Internat'l Cooperation & Dev	1.2	2.5	3.9	5.8	2.9	3.3	1.2	.6	.9	.6	.4
Office of Transportation 2/....	.3	.3	.3	.5	.4	.4	.4	-	-	-	-
Nat'l Agricultural Stat Svc ...	4.7	5.1	5.5	5.6	5.4	2.3	2.4	1.9	1.9	2.0	2.0
Department of Commerce, total ...	259.2	265.6	276.1	301.0	312.9	312.8	311.5	321.9	345.6	413.4	418.1
Bureau of the Census	1.6	1.9	2.0	2.1	2.1	2.1	2.4	1.8	2.1	2.4	2.4
Economic Development Admin	1.6	4.8	5.1	2.0	2.3	5.0	4.2	1.0	1.2	1.2	-
Nat'l Inst of Standards & Tech	57.3	63.1	63.5	64.5	63.5	64.3	72.6	77.6	83.2	110.3	117.7
Nat'l Oceanic & Atmospheric Administration	188.5	188.9	197.7	224.4	237.5	234.4	225.0	234.6	252.4	292.4	290.9
Nat'l Telecomm & Info Admin ...	10.1	6.9	7.7	7.9	7.6	7.0	7.3	6.9	6.8	7.0	7.0
Office of the Secretary	-	-	.0	.1	-	.0	-	-	-	-	-
Department of Defense, total	2,266.1	2,437.0	2,200.7	2,306.9	2,303.3	2,440.0	2,362.2	2,708.2	2,581.6	2,665.5	2,883.5
Department of the Army	451.6	485.3	486.7	582.6	578.8	692.9	588.0	636.3	595.2	607.8	669.8
Department of the Navy	498.4	521.6	449.6	448.2	447.1	432.5	406.0	429.2	442.6	481.7	514.8
Department of the Air Force ...	488.1	524.2	547.7	538.4	542.5	563.2	576.7	604.6	579.3	527.2	639.0
Defense agencies	828.1	905.9	716.6	737.7	735.0	751.3	791.5	1,038.1	964.6	1,048.8	1,059.8
Department of Education	56.3	61.9	68.7	77.3	91.3	103.8	106.6	117.5	125.3	148.7	158.2
Department of Energy 5/	1,050.9	1,193.4	1,194.5	1,198.4	1,080.7	1,029.4	1,050.6	1,020.8	1,065.7	1,237.2	1,211.8
Dept of Hlth & Human Svcs, total	1,460.9	1,545.4	1,651.5	1,795.8	1,850.8	2,194.0	2,415.6	2,700.4	2,818.1	3,158.6	3,252.1
Administration for Children and Families 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.9	8.8
Agency for Health Care Policy and Research 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.2	87.2	31.2
Alcohol, Drug Abuse & Mental Health Administration	128.7	155.4	165.2	179.7	191.5	241.1	286.6	384.7	415.0	478.1	512.7
Centers for Disease Control ...	75.0	78.2	46.3	47.6	52.2	66.2	88.7	117.8	95.6	109.6	113.3
Food & Drug Administration	73.0	74.2	77.8	82.1	79.4	85.0	91.0	99.0	99.0	110.0	125.3
Health Care Financing Admin ...	29.1	30.2	33.1	33.5	29.0	27.3	28.2	49.1	49.1	69.8	36.0
Health Resources & Svc's Admin	6.1	10.2	15.4	17.3	11.2	8.0	9.0	9.3	10.7	9.2	9.3
Human Development Services 6/..	8.3	6.9	4.5	5.8	6.8	9.4	7.1	8.5	7.7	N/A	N/A
National Institutes of Health .	1,103.8	1,165.2	1,285.6	1,410.1	1,469.0	1,739.1	1,885.6	2,008.5	2,074.1	2,248.1	2,384.5
Off of Asst Secy for Hlth 7/...	8.2	-	-	-	-	-	-	-	5.8	9.6	2.3
Office of the Secretary	13.1	14.4	10.0	9.4	6.1	8.2	4.7	7.8	5.0	8.9	5.0
Social Security Administration	15.5	10.8	13.5	10.4	5.6	9.8	14.7	15.8	11.8	19.1	23.7
Dept of Housing & Urban Dev	10.3	11.3	6.3	6.5	5.3	5.5	6.3	6.1	6.6	11.4	13.2
Dept of the Interior, total	275.0	254.7	254.3	231.0	234.9	247.3	266.0	253.0	269.8	316.0	309.9
Bureau of Land Management	2.4	2.0	1.8	2.8	2.1	2.1	2.2	2.0	2.1	2.7	4.9
Bureau of Mines	65.2	55.9	56.7	36.7	36.6	39.6	54.1	49.3	49.3	59.1	43.0
Bureau of Reclamation	8.9	8.7	8.8	10.9	9.6	10.1	3.6	3.5	5.2	7.7	10.6
Geological Survey	99.4	89.9	125.1	130.0	127.8	131.7	135.8	126.8	134.2	153.6	153.1
Minerals Management Service ...	-	1.5	1.5	1.4	1.1	1.0	1.2	2.2	1.9	2.6	5.7
National Park Service	11.2	13.7	14.0	15.0	17.3	18.5	19.4	19.4	20.1	25.2	29.0
Office of the Secretary	-	-	-	-	-	-	.1	-	-	-	-
Off of Surface Mining Reclamation & Enforcement ...	1.5	1.5	0.8	2.0	2.3	1.0	1.0	0.7	0.7	1.0	2.9
Office of Water Rsch & Tech ...	6.8	.8	3.2	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	79.6	80.6	42.3	32.2	38.1	43.3	48.7	49.1	56.4	64.1	60.6

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-152B. Federal obligations for applied research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Department of Justice, total	13.2	17.1	13.2	15.1	17.0	11.8	9.8	10.7	11.1	15.1	12.3
Drug Enforcement Admin	1.3	.9	.7	.5	.8	.7	.6	.5	.4	.3	.8
Federal Prison System	.9	1.3	1.2	1.1	2.7	2.2	2.1	2.1	1.8	1.8	1.7
Immigration & Naturalization Svc	.3	.3	.3	.2	.2	.2	.3	.1	.4	.4	.4
Office of Justice Programs	10.3	14.4	11.0	13.0	13.2	8.6	6.8	8.0	8.5	12.6	9.4
Office of Legal Policy	.4	.2	-	.3	.2	.1	-	-	-	-	-
Department of Labor, total	10.6	12.7	11.2	9.1	8.7	19.0	26.4	21.8	21.3	24.5	29.8
Bureau of Labor Statistics	.3	.7	.5	.6	.6	6.5	7.0	7.0	7.3	7.4	7.7
Employment Standards Admin	1.4	1.4	.9	.0	-	1.0	.1	.1	.1	.2	.1
Employment & Training Admin ...	2.1	2.6	1.0	.3	2.6	4.0	6.5	5.7	5.7	6.4	5.4
Labor-Management Relations and Cooperative Programs 8/..	N/A	N/A	.3	.3	.2	.3	.4	.3	-	-	-
Labor-Management Svcs Admin 8/.	.7	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupational Safety & Hlth Administration	4.9	5.3	5.1	4.5	3.6	4.1	4.2	4.5	2.5	3.3	3.3
Office of the Secretary	.9	1.5	1.9	1.7	1.3	1.8	5.2	2.5	3.3	4.4	10.3
Pension Benefit Guaranty Corporation	.3	.3	.3	.2	.1	.3	.3	.3	.3	.4	.5
Pension & Welfare Benefit Admin	N/A	N/A	1.2	1.6	.3	1.0	2.7	1.4	2.1	2.5	2.6
Department of State, total	1.5	1.5	1.6	1.5	1.5	.3	1.0	1.3	1.2	1.2	1.2
Dept of Transportation, total ...	65.7	71.7	74.2	70.2	67.6	68.4	91.0	120.3	118.9	145.6	136.0
Coast Guard	1.7	.8	7.2	5.4	3.5	3.7	5.4	4.6	5.1	6.2	7.1
Federal Aviation Admin	7.0	12.5	15.0	17.3	14.0	11.1	13.3	23.6	26.1	28.0	25.8
Federal Highway Administration	5.3	7.3	6.1	6.3	14.7	20.5	43.5	56.4	57.4	66.9	52.0
Federal Railroad Admin	3.1	2.8	12.3	11.4	12.5	10.4	8.2	7.5	8.5	19.3	21.4
Maritime Administration 9/.....	5.6	5.7	5.1	7.0	6.2	3.1	.5	-	.9	1.0	2.0
Nat'l Highway Traffic Safety Administration	21.3	21.4	24.7	20.9	16.1	18.9	19.1	26.2	16.9	21.4	23.7
Office of the Secretary	.3	.3	.9	.9	.4	.4	.7	1.3	1.7	.6	.8
Rsch & Special Programs Admin .	2.1	2.6	1.8	.5	.3	.2	.4	.7	2.4	2.3	3.0
Urban Mass Trans Admin	19.4	18.3	1.0	.5	-	-	-	-	-	-	-
Dept of the Treasury, total	5.9	6.7	6.6	13.6	12.7	12.7	11.1	13.0	15.3	18.0	18.4
Bureau of Engraving & Printing	2.8	1.4	1.4	3.1	2.7	2.7	1.1	.9	1.4	3.1	3.3
Internal Revenue Service	3.1	5.0	4.9	10.2	9.5	9.7	9.0	11.3	13.1	13.9	13.9
Office of Protective Research .	-	.3	.1	.2	.2	.1	.3	.4	.5	.5	.5
United States Customs Service .	.0	-	.1	.1	.2	.2	.7	.4	.4	.5	.7
Department of Veterans Affairs ..	110.1	132.0	156.1	193.7	155.1	173.1	178.8	197.1	199.4	205.1	182.7
Other agencies											
Advisory Comm on Intergov't1 Relations	2.0	2.1	2.1	2.4	2.1	1.9	1.8	1.1	1.5	1.5	1.4
Agency for International Dev 10/.	127.9	152.6	164.0	158.1	180.7	151.2	132.1	216.0	300.2	279.4	288.9
Appalachian Regional Commission .	.3	.2	.4	.2	.2	.1	.2	.8	.4	.3	-
Consumer Product Safety Comm	.1	.3	1.1	1.4	1.1	.6	.1	.5	.4	1.1	1.0
Environmental Protection Agency .	210.7	152.4	142.3	176.0	179.3	246.1	240.7	222.6	241.6	246.0	280.9
Federal Communications Comm	1.2	1.3	.9	1.2	.9	1.0	1.2	1.1	1.3	1.6	1.4
Fed Emergency Management Agency .	7.8	3.3	6.1	2.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Federal Home Loan Bank Board 11/.	2.7	3.0	2.6	2.8	3.3	3.4	3.4	N/A	N/A	N/A	N/A
Federal Trade Commission	.2	.2	.2	.3	.3	.5	.4	.4	.5	.5	.5
General Services Admin	.5	.2	.4	.3	.9	1.6	2.3	.5	.7	-	-
International Trade Commission ..	3.8	4.7	5.0	5.8	6.9	7.2	8.1	8.7	9.1	10.9	11.8
Library of Congress	.7	1.0	1.5	1.5	1.1	1.1	1.2	1.2	1.2	1.3	1.3
Nat'l Aeronautics & Space Admin .	871.4	927.8	954.7	1,032.7	1,152.3	1,255.5	1,218.9	1,461.4	1,423.8	1,734.4	2,231.5
National Archives & Records Admin	N/A	N/A	N/A	.1	-	.3	.3	.1	.1	.3	.3

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-152B. Federal obligations for applied research by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Other agencies											
National Science Foundation	57.1	62.9	70.5	83.8	78.1	99.3	99.6	107.8	103.3	114.9	136.3
Nuclear Regulatory Commission ...	220.3	207.3	190.7	150.0	123.8	122.5	108.5	114.8	217.5	229.6	250.9
Office of Thrift Supervision 11/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.1	4.1	3.3	3.5
Tennessee Valley Authority	8.1	6.7	9.2	8.9	10.5	13.8	15.3	11.7	17.0	25.9	22.1
US Arms Control & Disarmament Agency	1.3	.8	1.2	1.1	.9	.4	.8	1.2	.2	.3	2.0
US Information Agency 12/.....	-	.0	1.4	.1	1.6	-	.1	-	.5	.4	.7

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Includes programs of the Farmer Cooperative Service for fiscal years 1970-76

2/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

3/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

4/ Includes former Cooperative State Research Service of the Science and Education Administration for fiscal years 1978-80

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

7/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

8/ In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations and Cooperative Programs.

9/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

10/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

11/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

12/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-153A. Federal obligations for development by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all agencies	10,419.3	10,948.2	11,218.7	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1
Departments											
Department of Agriculture, total	12.8	12.4	12.4	13.6	18.1	20.2	22.9	26.8	31.1	30.2	33.0
Agricultural Marketing Svc 1/	N/A	-	-	-	-	-	-	-	.5	.3	.2
Agricultural Research Svc 2/	11.6	9.9	9.8	10.2	13.0	14.5	18.0	21.8	24.9	23.3	26.2
Econ, Stat & Coop Svc 3/	N/A	N/A	N/A	N/A	N/A	N/A	.8	-	-	N/A	N/A
Forest Service	.9	2.2	2.3	3.2	4.9	5.4	4.2	5.0	5.0	5.5	6.2
Off of Internat'l Cooperation & Dev	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	.4	.3
Office of Transportation 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7	.8	.1
Nat'l Agricultural Stat Svc	.2	.3	.3	.2	.2	.3	N/A	N/A	N/A	N/A	-
Department of Commerce, total	30.0	43.9	60.4	51.4	71.0	73.1	68.6	90.9	89.9	88.1	78.6
Bureau of the Census	2.1	2.1	.5	.4	.4	.4	.6	1.1	1.2	1.2	.9
Economic Development Admin	2.9	5.7	5.4	3.2	9.2	13.0	12.5	32.6	34.6	29.8	26.3
Maritime Administration 4/	7.5	1.5	17.8	17.3	17.1	14.0	11.1	12.6	7.4	7.3	N/A
Minority Business Dev Agency	-	.5	2.1	.8	3.7	1.6	2.7	-	-	-	-
Nat'l Inst of Standards & Tech	3.9	4.9	5.8	7.6	8.4	9.9	8.3	9.8	16.0	17.3	16.3
Nat'l Fire Prevention & Control Administration	N/A	-	-	-	2.9	3.2	2.1	N/A	N/A	N/A	N/A
Nat'l Oceanic & Atmospheric Administration	13.4	24.9	26.5	22.0	28.3	30.2	29.9	33.5	28.5	30.9	32.9
Nat'l Telecomm & Info Admin	N/A	N/A	N/A	N/A	N/A	N/A	.9	.7	1.7	1.1	1.1
Office of Telecommunications	-	3.6	1.2	-	.7	.5	N/A	N/A	N/A	N/A	N/A
Patent and Trademark Office	.2	.6	.6	.2	.3	.2	.5	.5	.5	.5	1.1
US Travel & Tourism Admin	-	-	.4	-	-	-	-	-	-	-	-
Department of Defense, total	6,199.8	6,813.6	6,968.1	6,986.0	7,581.5	8,127.2	9,247.5	9,729.6	10,492.1	11,719.2	13,907.7
Department of the Army	1,372.4	1,692.6	1,636.5	1,643.4	1,560.4	1,651.3	2,043.9	2,139.1	2,320.1	2,500.7	2,707.7
Department of the Navy	1,929.7	2,113.0	2,268.4	2,317.2	2,693.7	2,890.1	3,320.0	3,472.1	3,767.7	4,095.0	4,308.0
Department of the Air Force	2,791.6	2,912.0	2,932.6	2,874.6	3,157.7	3,344.3	3,605.3	3,813.6	4,033.4	4,673.7	6,351.9
Defense agencies	106.0	96.0	105.6	126.6	145.9	217.5	248.0	276.2	341.7	411.9	499.1
Test & Evaluation, Deputy Under Secretary Defense	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1
Department of Education	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.9	51.8	51.1
Department of Energy 5/	N/A	N/A	N/A	N/A	N/A	N/A	2,645.0	3,142.6	3,506.9	3,476.4	3,504.6
Dept of Hlth, Education, & Welfare, total	244.2	319.1	393.4	443.4	472.6	432.8	409.0	466.5	N/A	N/A	N/A
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	-	-	-	2.8	1.0	1.4	N/A	N/A	N/A
Centers for Disease Control	N/A	N/A	.2	-	-	-	-	-	N/A	N/A	N/A
Health Resources Admin	N/A	-	41.6	46.1	26.6	7.2	-	.5	N/A	N/A	N/A
Health Services Administration	N/A	N/A	3.0	3.1	6.7	8.0	8.1	7.6	N/A	N/A	N/A
Hlth Svcs & Mental Hlth Admin	43.7	44.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nat'l Institute of Education	N/A	-	90.7	66.2	65.8	52.9	37.8	54.9	N/A	N/A	N/A
National Institutes of Health	125.5	172.0	182.1	247.1	275.7	292.6	311.2	348.3	N/A	N/A	N/A
Off of Asst Secy for Hlth	-	-	-	-	-	-	3.6	3.6	N/A	N/A	N/A
Office of Child Development	3.3	5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Education	69.6	94.0	51.6	45.1	40.6	36.8	19.2	19.6	N/A	N/A	N/A
Off of Human Development Svcs	-	-	18.7	35.8	57.3	27.3	28.1	30.7	N/A	N/A	N/A
Social & Rehabilitation Svc	2.0	3.8	5.3	-	-	-	N/A	N/A	N/A	N/A	N/A
Social Security Administration	-	-	-	-	-	5.3	-	-	N/A	N/A	N/A
Dept of Hlth & Human Svcs, total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	489.2	447.4	434.9
Alcohol, Drug Abuse & Mental Health Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.7	-	1.8
Health Services Administration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.5	18.7	10.1
Human Development Services 6/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42.2	30.1	33.8
National Institutes of Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	423.0	394.4	384.9
Off of Asst Secy for Hlth 7/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.7	4.2	4.3
Office of the Secretary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-
Dept of Housing & Urban Dev	37.2	36.4	39.5	31.0	28.5	30.6	19.4	39.2	44.1	36.4	31.4
Dept of the Interior, total	54.7	71.4	83.6	48.9	69.3	73.7	58.7	75.5	66.3	56.8	57.3
Bonneville Power Admin 5/	1.6	2.2	2.5	2.0	5.5	6.5	N/A	N/A	N/A	N/A	7.7
Bureau of Land Management	.0	.0	.0	.0	.0	.1	.1	.2	.2	.3	.4
Bureau of Mines	21.6	30.2	36.1	35.6	54.7	58.0	49.6	57.0	41.9	30.6	28.7
Bureau of Reclamation	.1	.2	.3	.5	.5	.4	.6	.6	.8	1.2	.9
Geological Survey	-	-	3.7	-	-	-	-	-	.5	.5	.5
National Park Service	-	-	-	-	-	-	.3	-	-	-	-
Office of Coal Research	11.4	16.0	20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of the Secretary	-	1.1	17.2	.1	.4	-	-	-	-	-	-
Office of Water Rsch & Tech	17.9	19.2	-	7.4	4.0	5.1	2.8	12.0	9.4	10.9	5.3
US Fish & Wildlife Service	2.1	2.4	3.0	3.3	4.1	3.7	5.4	5.7	13.5	13.4	13.7
Department of Justice, total	3.8	11.0	26.2	16.1	25.4	15.5	10.1	15.2	14.1	12.7	7.0
Drug Enforcement Admin	-	-	-	3.3	.6	2.0	2.1	1.4	1.7	1.9	.9
Fed Bureau of Investigation	1.0	.7	.7	1.9	1.2	1.2	1.4	1.8	3.1	1.4	.7
Federal Prison System	.4	.5	.5	.5	.6	.8	1.0	2.9	2.9	1.3	.9
Immigration & Naturalization Svc	-	-	-	-	.0	-	.1	.2	.1	.2	.1
Office of Justice Programs	2.5	9.8	24.9	10.4	23.0	11.5	5.4	8.3	6.3	7.5	4.4
Office of Legal Policy	-	-	-	-	-	-	-	.6	.0	.5	.1

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-153A. Federal obligations for development by selected agency: fiscal years 1971-81

[Dollars in millions]

Selected agency	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Department of Labor, total	9.2	9.9	6.6	6.6	10.1	10.5	10.8	72.1	94.9	101.6	4.0
Bureau of Labor Statistics	.9	2.3	.2	1.0	1.1	.5	.5	.5	-	-	-
Employment & Training Admin	8.3	7.4	5.9	4.5	8.3	10.0	10.4	71.7	94.9	101.6	3.6
Occupational Safety & Hlth Administration	-	.2	.5	.9	.7	-	-	-	-	-	-
Office of the Secretary	.0	.0	.0	.2	-	-	-	-	-	-	-
Pension Benefit Guaranty Corporation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.4
Department of State, total	1.1	.9	1.6	4.7	5.4	14.2	23.1	36.1	.5	.3	.2
Agency for Internat'l Dev 8/	1.1	.9	.9	4.3	4.9	13.8	22.9	35.7	N/A	N/A	N/A
Departmental funds	-	-	.7	.4	.5	.5	.2	.4	.5	.3	.2
Dept of Transportation, total	400.2	212.3	233.4	308.0	257.7	263.4	302.8	341.8	303.1	278.8	327.0
Coast Guard	16.8	25.3	22.4	14.8	11.6	9.8	16.4	21.4	10.2	9.9	11.3
Federal Aviation Admin	329.0	78.7	61.6	111.1	91.5	94.5	98.7	103.7	103.0	94.9	111.8
Federal Highway Administration	2.9	.4	21.7	37.6	41.3	27.0	50.2	46.8	48.5	46.5	46.1
Federal Railroad Admin	3.7	17.0	20.2	31.9	29.7	41.8	35.3	44.7	36.7	38.3	30.4
Maritime Administration 4/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.7
Nat'l Highway Traffic Safety Administration	12.0	29.3	32.9	38.7	22.0	21.5	19.5	28.3	26.6	24.9	36.5
Office of the Secretary	6.6	10.7	14.6	14.6	16.9	21.9	23.8	27.6	11.1	10.2	9.4
Rsch & Special Programs Admin	N/A	N/A	N/A	N/A	N/A	N/A	-	.8	10.0	8.5	7.9
Urban Mass Trans Admin	29.3	51.0	60.0	59.3	44.8	46.9	58.9	68.5	56.9	45.5	68.9
Dept of the Treasury, total	.4	.8	.6	.7	1.3	2.3	2.7	5.8	4.8	6.3	6.1
Bureau of Alcohol, Tobacco, & Firearms	N/A	-	-	-	-	-	.7	1.6	1.9	1.2	.2
Bureau of Engraving & Printing	.4	.8	.6	.7	1.3	1.3	.8	1.8	1.5	1.0	1.8
Internal Revenue Service	-	-	-	-	-	-	-	.6	.1	.1	.0
Office of Protective Research	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.4	.6
United States Customs Service	-	-	-	-	-	1.0	1.2	1.8	1.3	3.7	3.4
Department of Veterans Affairs	.8	2.0	4.5	6.1	7.7	12.6	14.7	14.6	15.6	15.5	16.7
Other agencies											
Action	-	-	-	.1	-	-	.4	1.4	1.6	-	-
Agency for International Dev 8/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.6	69.7	47.8
Appalachian Regional Commission	-	-	-	-	-	-	.1	.1	.2	.2	.1
Atomic Energy Commission	873.9	880.5	938.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Civil Service Commission	.2	.6	1.9	1.8	2.9	2.9	2.8	N/A	N/A	N/A	N/A
Community Services Admin	N/A	N/A	N/A	21.3	22.9	10.2	23.0	22.3	18.9	29.1	16.4
Consumer Product Safety Comm	N/A	-	.1	1.6	3.0	2.1	3.0	2.9	2.1	1.9	.3
Energy Rsch & Development Admin 9/	N/A	N/A	N/A	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A	N/A	N/A
Environmental Protection Agency	82.9	71.3	106.3	72.9	115.9	103.7	90.2	132.0	151.1	99.9	107.4
Fed Emergency Management Agency	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	2.9	2.5	2.5
Federal Energy Administration	N/A	N/A	N/A	-	1.1	1.9	N/A	N/A	N/A	N/A	N/A
General Services Admin	.1	.1	.2	.4	.9	.7	.5	.5	.3	.1	.2
Library of Congress	1.5	1.2	1.2	1.8	2.2	2.5	3.4	4.4	5.3	6.3	4.0
Nat'l Aeronautics & Space Admin	2,335.2	2,392.6	2,267.0	2,156.5	2,129.3	2,224.0	1,964.7	1,988.1	2,127.2	1,624.4	2,186.0
National Science Foundation	18.7	27.6	15.9	36.2	25.0	13.5	8.7	5.3	7.9	8.1	6.1
Office of Economic Opportunity	70.8	37.4	55.5	-	-	N/A	N/A	N/A	N/A	N/A	N/A
Office of Personnel Management	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.5	4.6	4.2	5.0
Office of Science and Technology	1.0	1.0	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Office of Telecomm Policy	-	-	-	-	1.7	2.7	-	-	N/A	N/A	N/A
Postal Service	38.7	-	-	-	-	-	-	-	-	-	-
Tennessee Valley Authority	1.8	1.8	1.8	1.6	1.9	2.2	3.6	18.0	21.9	64.3	54.7
US Arms Control & Disarmament Agency	.4	.4	.2	.0	.0	.0	.4	1.2	.8	.8	.8
US Information Agency 10/	.0	.0	.0	.0	-	.0	.0	.0	.0	.0	.3

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

2/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

3/ Includes programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79

4/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

5/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

6/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

7/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

8/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

9/ In 1977 the Energy Research and Development Administration became part of the Department of Energy.

10/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-153B. Federal obligations for development by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total, all agencies	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,312.7	38,118.8	40,640.4	41,928.5	39,146.0	44,744.0
Departments											
Department of Agriculture, total	30.8	30.0	31.3	32.0	32.1	29.0	31.4	36.1	39.1	41.8	43.9
Agricultural Marketing Svc 1/	.2	.3	.3	.3	.3	.3	.3	.3	.4	.5	.5
Agricultural Research Svc 2/	25.8	25.5	27.0	27.7	27.4	24.0	26.3	31.4	33.3	35.9	38.0
Federal Grain Inspection Svc	N/A	N/A	N/A	.2	.3	.5	.4	.3	.4	.5	.5
Forest Service	4.5	3.8	3.3	3.3	3.6	3.8	4.0	3.9	4.8	4.8	4.7
Off of Internat'l Cooperation & Dev	.2	.4	.7	.4	.3	.3	.2	.1	.2	.1	.1
Office of Transportation 1/	.1	.1	.1	.2	.1	.1	.1	-	-	-	-
Department of Commerce, total	60.2	50.2	61.5	74.6	59.7	63.7	46.6	46.9	61.2	81.2	86.9
Bureau of the Census	1.9	2.1	2.1	2.4	2.1	1.9	1.9	2.0	2.0	1.9	1.9
Economic Development Admin	8.0	-	-	11.0	8.0	-	-	-	-	-	-
Nat'l Inst of Standards & Tech	14.9	13.6	11.8	14.0	11.6	9.3	9.1	10.0	10.5	35.3	35.7
Nat'l Oceanic & Atmospheric Administration	33.5	33.1	46.6	45.4	37.2	51.7	34.8	34.1	47.7	43.1	46.2
Nat'l Telecomm & Info Admin	1.2	1.4	.9	1.2	.8	.8	.8	.9	.9	.9	3.0
Office of the Secretary	-	.0	.1	.6	-	-	-	-	-	-	-
Patent and Trademark Office	.7	-	-	-	-	-	-	-	-	-	-
Department of Defense, total	17,669.8	19,770.1	22,324.3	26,623.2	29,710.7	31,884.0	32,009.7	33,920.8	33,738.9	30,160.4	34,858.4
Department of the Army	3,121.3	3,304.5	3,516.8	3,747.4	3,982.1	4,109.6	4,052.3	4,835.9	4,903.8	4,771.1	5,595.2
Department of the Navy	5,066.4	5,241.2	6,840.2	8,336.1	8,865.9	8,721.1	8,766.2	8,882.9	8,778.6	7,970.7	7,487.6
Department of the Air Force	8,724.0	10,124.2	11,351.5	12,524.3	12,834.8	14,562.9	14,094.2	14,430.0	14,055.1	11,187.5	14,264.5
Defense agencies	717.1	1,038.7	557.3	1,964.8	3,910.7	4,353.5	4,868.4	5,616.8	5,780.2	6,018.2	7,222.0
Test & Evaluation, Deputy Under Secretary Defense	41.0	61.6	58.6	50.6	117.1	128.5	160.3	140.7	188.7	200.1	275.0
Director, Operational Test and Evaluation	N/A	N/A	N/A	N/A	-	8.4	68.2	14.4	32.6	12.8	14.1
Department of Education	57.5	35.6	34.8	33.0	25.5	25.6	29.7	37.2	39.7	50.9	57.2
Department of Energy 3/	3,012.1	2,575.6	2,648.7	2,823.0	2,648.0	2,659.4	2,801.0	2,760.9	3,060.1	3,195.7	3,556.3
Dept of Hlth & Human Svcs, total	335.2	331.7	364.7	422.7	468.0	584.3	661.1	814.4	938.5	1,045.9	1,109.2
Administration for Children and Families 4/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	139.2	144.4
Agency for Health Care Policy and Research 5/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.5	8.6	3.1
Alcohol, Drug Abuse & Mental Health Administration	2.1	1.8	1.2	1.1	1.2	2.2	2.4	3.0	41.5	48.0	53.0
Health Resources & Svc's Admin	3.4	2.3	2.3	1.5	-	-	-	-	-	-	-
Human Development Services 4/	18.5	16.6	13.8	18.5	47.8	43.6	46.8	93.2	87.7	N/A	N/A
National Institutes of Health	308.7	311.0	347.0	399.6	417.5	536.2	610.2	716.5	800.7	847.9	907.1
Off of Asst Secy for Hlth 5/	2.2	-	-	1.7	1.5	2.3	1.6	1.7	1.1	.5	1.6
Office of the Secretary	.3	-	.4	.2	-	-	-	-	-	-	-
Social Security Administration	-	-	-	-	-	-	-	-	2.1	1.7	-
Dept of Housing & Urban Dev	18.5	20.8	11.9	12.0	10.1	10.8	12.1	11.9	12.7	20.1	23.2
Dept of the Interior, total	29.6	24.8	30.7	22.4	17.3	21.7	24.3	27.1	33.3	39.5	41.6
Bureau of Land Management	2.9	1.9	2.0	1.6	1.3	1.6	1.5	1.0	.7	1.8	3.7
Bureau of Mines	13.6	9.2	11.6	3.3	2.8	3.6	5.2	5.4	9.4	8.3	5.5
Bureau of Reclamation	1.1	1.2	1.4	2.0	.5	.5	.7	.6	.5	.8	1.1
Geological Survey	.5	2.3	4.9	4.4	7.4	10.3	10.9	12.9	15.1	17.7	18.0
National Park Service	-	-	-	-	-	-	-	-	-	-	-
Office of the Secretary	-	-	-	-	-	-	.3	.4	.2	.7	1.1
Off of Surface Mining Reclamation & Enforcement	-	-	-	-	-	-	-	-	-	.0	-
Office of Water Rsch & Tech	1.3	1.0	-	-	-	-	-	-	-	-	-
US Fish & Wildlife Service	10.3	9.2	10.8	11.1	5.3	5.7	5.7	6.7	7.4	10.3	12.2
Department of Justice, total	10.4	10.7	6.6	16.7	14.1	22.5	25.7	20.6	20.6	24.8	25.0
Drug Enforcement Admin	1.9	1.6	1.2	1.1	1.7	1.5	1.9	2.2	2.0	1.7	2.5
Fed Bureau of Investigation	2.7	2.5	1.0	9.5	7.2	8.0	12.7	7.7	8.2	10.7	10.8
Federal Prison System	.7	.4	.4	.4	.3	4.9	3.9	3.0	2.7	2.8	2.7
Immigration & Naturalization Svc	.4	.3	.3	.2	.2	.2	-	-	-	-	-
Office of Justice Programs	4.6	5.8	3.8	5.5	4.7	7.9	7.1	7.8	7.7	9.6	9.0
Office of Legal Policy	0.0	0.1	-	-	-	-	-	-	-	-	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table C-153B. Federal obligations for development by selected agency: fiscal years 1982-92

[Dollars in millions]

Selected agency	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Department of Labor, total	8.3	1.9	-	0.9	0.9	1.2	8.9	13.3	51.4	50.6	37.2
Employment & Training Admin ...	7.4	1.1	-	-	-	.3	8.0	9.7	47.4	46.3	33.5
Office of the Secretary	-	-	-	.9	.9	.9	.9	3.6	3.8	4.1	3.6
Pension Benefit Guaranty Corporation	.8	.8	-	-	-	-	-	-	.2	.2	.1
Dept of Transportation, total ...	243.4	275.1	370.6	357.6	317.3	255.7	212.9	182.3	246.7	268.7	299.0
Coast Guard	18.3	18.4	12.2	13.6	13.4	13.3	15.7	13.3	15.2	18.5	21.3
Federal Aviation Admin	87.3	113.7	251.2	269.0	246.6	156.2	147.3	123.2	189.9	202.3	208.3
Federal Highway Administration	35.0	43.1	40.3	42.6	30.8	55.5	29.9	33.9	33.1	38.7	50.6
Federal Railroad Admin	15.1	13.7	6.9	3.6	2.9	.8	1.8	1.5	1.7	4.0	4.4
Maritime Administration 6/.....	4.5	8.8	1.3	5.9	2.6	2.5	-	-	-	-	-
Nat'l Highway Traffic Safety Administration	34.1	30.6	32.2	7.2	6.3	9.0	9.2	3.5	-	-	-
Office of the Secretary	3.0	4.6	4.0	3.9	4.7	4.1	5.0	4.2	5.1	3.7	5.0
Rsch & Special Programs Admin .	4.0	3.6	3.5	2.2	1.7	1.8	1.7	1.3	-	-	-
Urban Mass Trans Admin	42.0	38.6	19.1	9.7	8.2	12.6	2.3	1.4	1.6	1.6	9.4
Dept of the Treasury, total	5.2	5.4	3.3	6.0	6.3	9.5	10.2	9.3	6.9	7.7	9.9
Bureau of Engraving & Printing	2.0	1.9	1.3	1.6	1.1	1.7	.8	.3	.7	1.7	1.4
Internal Revenue Service	.1	.1	.2	1.3	.2	.4	.7	.3	.3	.4	.4
Office of Protective Research .	-	.0	.1	.5	.0	.3	-	.2	-	-	-
United States Customs Service .	3.1	3.3	1.7	2.1	4.6	6.8	8.5	6.4	5.8	4.7	7.8
United States Mint	-	-	-	.6	.3	.2	.1	2.0	.1	.9	.3
Department of Veterans Affairs ..	14.3	15.3	18.4	17.5	16.3	19.2	19.2	21.0	22.1	22.3	22.3
Other agencies											
Agency for International Dev 7/..	72.0	70.6	70.3	60.5	66.2	63.5	69.3	60.0	29.3	32.4	56.7
Appalachian Regional Commission .	.1	-	.1	-	-	-	-	-	-	-	-
Consumer Product Safety Comm	.1	.2	.2	1.0	.9	1.6	.9	.8	.7	.4	.3
Environmental Protection Agency .	91.7	66.1	89.2	105.8	99.5	71.0	79.5	107.0	104.5	82.7	87.5
Fed Emergency Management Agency .	-	-	5.4	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
General Services Admin	.5	.3	2.0	-	.3	-	-	-	-	-	-
Library of Congress	4.9	6.0	5.4	5.0	5.0	5.0	5.5	6.4	7.0	7.6	7.9
Nat'l Aeronautics & Space Admin .	1,670.7	1,116.8	1,112.7	1,543.6	1,350.8	1,517.8	1,998.8	2,514.7	3,472.6	3,970.8	4,367.2
National Archives	N/A	N/A	N/A	.3	1.0	.4	.2	.1	.1	.1	.1
National Science Foundation	2.2	-	-	-	-	-	-	-	-	-	-
Tennessee Valley Authority	72.3	50.7	53.8	65.1	59.8	60.2	68.8	48.0	43.2	42.3	54.3
US Arms Control & Disarmament Agency	.6	.1	.2	-	.1	3.2	2.6	1.6	-	-	-
US Information Agency 8/.....	.1	-	-	-	.4	3.5	.3	.1	-	-	-

N/A (not applicable) indicates that the agency or agency subdivision did not exist as such or in that organization in that year.

1/ Fiscal year 1979 was the first year in which Congress appropriated funds to Agricultural Marketing Service. Data reported for the Agricultural Marketing Service for fiscal years 1989-91 include funds for the Office of Transportation.

2/ Includes the former Agriculture Research Service of the Science and Education Administration for fiscal years 1978-80

3/ In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

7/ Agency for International Development (AID) became separate from the Department of State in 1979. AID includes programs of the International Development Cooperative Agency for fiscal years 1979-81.

8/ Includes the former International Communication Agency for fiscal years 1977-81

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-154A. Federal obligations for research and development, by performer: fiscal years 1971-81

[Dollars in millions]

Performer	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	15,542.5	16,495.9	16,800.2	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9
Intramural 1/	4,228.3	4,589.2	4,762.2	4,910.9	5,354.0	5,768.7	6,011.7	6,810.4	7,417.5	7,632.3	8,425.7
Industrial firms excl FFRDCs	7,587.5	7,716.0	7,731.3	7,752.3	8,323.2	9,340.3	10,717.2	11,400.0	12,172.4	12,969.1	14,867.9
FFRDCs admin by indust firms	480.2	529.9	582.4	592.8	703.7	813.8	1,112.7	1,242.5	1,318.1	1,408.1	1,413.9
Univ & colleges excluding FFRDCs	1,644.6	1,903.5	1,916.6	2,214.0	2,411.4	2,551.8	2,905.5	3,374.6	3,888.8	4,263.4	4,465.8
FFRDCs administered by univ	728.9	760.6	725.3	789.1	935.1	1,061.1	1,313.1	1,311.9	1,488.3	1,533.3	1,791.0
Nonprofit inst excluding FFRDCs	458.8	514.9	578.2	672.2	702.3	708.6	800.0	998.2	1,026.5	1,105.6	1,068.8
FFRDCs admin by nonprofit inst	210.2	215.4	183.1	199.3	219.9	231.0	263.9	315.9	368.7	441.8	525.2
State and local governments	141.1	206.7	256.8	214.4	227.6	231.2	238.0	268.4	310.1	265.5	222.2
Foreign	63.1	59.6	64.4	65.1	61.6	73.1	88.2	123.2	154.7	211.2	323.4

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-154B. Federal obligations for research and development, by performer: fiscal years 1982-92

[Dollars in millions]

Performer	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.1	56,768.8	61,405.8	63,667.3	63,217.9	70,427.4
Intramural 1/	9,141.0	10,581.9	11,572.3	12,945.4	13,534.9	13,413.1	14,114.6	15,120.9	16,002.5	16,469.2	17,645.4
Industrial firms excl FFRDCs	17,192.2	17,019.7	18,610.4	21,704.9	24,201.2	26,768.2	26,719.2	28,547.9	29,378.2	26,970.2	31,929.6
FFRDCs admin by indust firms	1,506.4	1,501.2	1,608.4	1,790.8	1,697.0	1,860.0	1,911.3	1,960.0	2,237.6	2,267.2	2,376.9
Univ & colleges excluding FFRDCs	4,605.5	4,966.4	5,546.9	6,339.7	6,558.8	7,337.3	7,827.7	8,672.0	9,142.1	10,067.8	10,475.4
FFRDCs administered by univ	1,976.7	2,393.9	2,485.8	2,816.4	2,767.7	3,209.6	3,473.9	3,497.1	3,466.4	3,694.7	4,126.0
Nonprofit inst excluding FFRDCs	1,091.7	1,241.6	1,497.3	1,699.2	1,677.0	1,710.8	1,682.6	1,999.1	2,249.6	2,549.7	2,618.5
FFRDCs admin by nonprofit inst	520.6	581.3	597.1	589.2	551.2	510.6	505.6	522.0	632.3	675.9	713.8
State and local governments	184.3	186.0	130.9	129.4	128.4	148.2	142.1	167.4	213.9	241.1	249.6
Foreign	214.3	239.5	175.8	244.5	296.3	295.3	391.8	919.4	344.7	282.1	292.2

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-155A. Federal obligations for research by performer: fiscal years 1971-81

[Dollars in millions]

Performer	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	5,123.2	5,547.7	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8
Intramural 1/	1,887.9	1,584.4	2,088.5	2,270.2	2,463.8	2,879.2	2,957.7	3,220.8	3,481.2	3,666.3	4,034.2
Industrial firms excl FFRDCs	889.0	906.6	887.3	874.6	1,010.2	1,103.0	1,367.3	1,651.4	1,762.0	2,077.6	1,958.3
FFRDCs admin by indust firms	75.7	75.3	68.7	98.2	135.7	176.5	192.2	235.2	245.0	311.0	351.3
Univ & colleges excluding FFRDCs	1,430.2	1,642.8	1,691.1	1,958.3	2,078.8	2,249.7	2,583.5	2,928.0	3,333.4	3,699.1	3,920.1
FFRDCs administered by univ	358.9	398.4	355.2	374.0	425.5	548.3	670.3	714.9	800.6	851.2	940.6
Nonprofit inst excluding FFRDCs	282.0	342.0	316.2	414.2	394.7	435.4	512.2	590.9	622.6	678.4	705.2
FFRDCs admin by nonprofit inst	52.0	59.9	50.2	50.8	64.8	57.5	55.6	66.9	73.4	71.7	67.7
State and local governments	95.8	93.8	84.3	91.0	111.9	119.4	115.2	128.8	139.5	150.9	129.3
Foreign	51.6	44.5	40.0	44.0	44.3	50.4	60.3	69.9	77.4	91.1	106.0

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-155B. Federal obligations for research by performer: fiscal years 1982-92

[Dollars in millions]

Performer	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.4	18,650.0	20,765.3	21,738.9	24,072.0	25,683.4
Intramural 1/	4,194.2	4,710.3	4,764.7	5,056.1	5,160.3	5,437.7	5,338.4	5,981.5	5,953.3	6,540.3	7,148.2
Industrial firms excl FFRDCs	2,156.6	2,114.2	2,137.4	2,074.4	2,280.5	2,448.6	2,642.5	2,875.0	3,199.9	3,650.2	3,990.0
FFRDCs admin by indust firms	487.3	522.6	496.5	485.9	482.1	433.5	455.2	519.8	542.7	582.5	617.4
Univ & colleges excluding FFRDCs	4,045.4	4,467.9	5,029.7	5,726.3	5,883.4	6,640.2	7,022.9	7,793.1	8,141.5	9,077.4	9,455.5
FFRDCs administered by univ	1,056.7	1,250.1	1,335.9	1,421.3	1,291.7	1,471.0	1,564.8	1,703.4	1,808.1	1,867.7	2,032.9
Nonprofit inst excluding FFRDCs	743.5	836.9	922.6	1,045.1	1,062.9	1,207.3	1,299.8	1,519.7	1,662.2	1,899.4	1,968.4
FFRDCs admin by nonprofit inst	104.2	85.2	87.3	97.0	87.9	89.8	82.9	109.5	148.2	166.1	178.8
State and local governments	125.9	136.7	88.2	89.5	91.0	90.2	103.1	121.2	126.4	138.3	134.0
Foreign	108.3	129.6	116.5	137.9	162.4	121.9	140.4	142.1	156.5	150.1	158.1

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-156A. Federal obligations for basic research by performer: fiscal years 1971-81

[Dollars in millions]

Performer	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	1,980.1	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3
Intramural 1/	565.4	596.9	608.1	695.9	733.5	786.0	914.1	1,029.3	1,089.1	1,182.5	1,301.8
Industrial firms excl FFRDCs	166.6	151.4	176.1	124.0	118.5	131.1	208.1	247.7	277.1	325.3	292.9
FFRDCs admin by indust firms	29.2	32.2	39.4	31.5	47.9	59.8	53.1	65.4	66.6	70.4	73.3
Univ & col excluding FFRDCs	879.4	1,021.4	1,048.2	1,144.7	1,260.6	1,341.7	1,555.1	1,759.2	2,079.9	2,320.3	2,503.2
FFRDCs administered by univ	227.7	254.5	229.0	223.1	257.5	284.9	324.1	356.8	393.6	436.8	490.6
Nonprofit inst excluding FFRDCs	85.2	96.4	98.5	127.1	128.2	126.5	162.5	192.8	240.3	279.5	313.1
FFRDCs admin by nonprofit inst	2.2	7.2	3.4	6.2	13.8	7.9	5.6	5.8	6.7	7.5	8.6
State and local governments	16.6	15.6	16.2	16.8	14.0	12.9	15.6	17.1	19.8	23.9	26.5
Foreign	7.9	11.2	13.1	18.3	14.3	16.6	20.4	24.6	19.5	28.1	31.2

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-156B. Federal obligations for basic research by performer: fiscal years 1982-92

[Dollars in millions]

Performer	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,445.9	13,208.0
Intramural 1/	1,465.5	1,689.8	1,861.1	1,923.4	2,018.9	2,046.2	2,050.3	2,370.7	2,366.0	2,591.7	2,754.8
Industrial firms excl FFRDCs	270.9	292.9	377.9	380.1	511.6	467.0	596.9	773.2	887.5	1,010.3	1,078.6
FFRDCs admin by indust firms	87.4	83.0	91.1	122.6	117.6	119.9	133.0	166.7	175.4	206.7	221.8
Univ & col excluding FFRDCs	2,727.1	3,112.3	3,530.8	4,038.7	4,132.1	4,665.6	4,868.3	5,221.4	5,548.2	6,144.1	6,432.0
FFRDCs administered by univ	516.7	604.0	668.9	724.2	724.1	906.7	989.8	1,098.1	1,227.3	1,266.2	1,425.6
Nonprofit inst excluding FFRDCs	355.6	409.6	473.6	555.8	572.1	657.7	728.6	838.9	924.1	1,057.2	1,112.6
FFRDCs admin by nonprofit inst	9.0	8.0	8.2	12.4	13.0	13.3	17.7	42.2	59.2	64.3	72.9
State and local governments	24.5	32.1	28.1	30.5	30.9	37.5	42.7	43.6	50.4	57.0	59.1
Foreign	24.9	28.5	27.7	30.9	32.7	28.5	46.3	47.4	47.6	48.6	50.5

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-157A. Federal obligations for applied research by performer: fiscal years 1971-81

[Dollars in millions]

Performer	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	3,143.0	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5
Intramural 1/	1,322.5	1,387.5	1,480.4	1,574.3	1,7[illegible].3	2,093.1	2,043.6	2,191.5	2,392.1	2,483.8	2,732.4
Industrial firms excl FFRDCs	722.4	755.2	711.2	750.7	891.7	971.9	1,159.1	1,403.7	1,484.9	1,752.3	1,665.4
FFRDCs admin by indust firms	46.4	43.1	29.3	66.7	87.8	116.7	139.1	169.8	178.3	240.7	278.1
Univ & colleges excluding FFRDCs	550.8	621.4	642.9	813.5	818.2	908.0	1,028.4	1,168.8	1,253.5	1,378.8	1,416.9
FFRDCs administered by univ	131.2	144.0	126.2	150.9	168.0	263.4	346.2	358.1	407.0	414.3	450.0
Nonprofit inst excluding FFRDCs	196.9	245.5	217.7	287.1	266.4	308.9	349.6	398.1	382.3	398.9	392.1
FFRDCs admin by nonprofit inst	49.8	52.6	46.8	44.6	51.0	49.6	49.9	61.2	66.7	64.2	59.1
State and local governments	79.2	78.2	68.1	74.2	97.9	106.5	99.6	111.8	119.7	127.1	102.8
Foreign	43.7	33.3	26.9	25.7	30.0	33.8	39.9	45.3	57.9	63.0	74.8

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-157B. Federal obligations for applied research by performer: fiscal years 1981-91

[Dollars in millions]

Performer	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,997.9	9,176.4	10,163.3	10,453.3	11,626.0	12,475.5
Intramural 1/	2,728.7	3,020.4	2,903.6	3,132.7	3,141.5	3,391.5	3,288.1	3,610.8	3,587.3	3,948.6	4,393.4
Industrial firms excl FFRDCs	1,885.7	1,821.3	1,759.5	1,694.3	1,768.8	1,981.6	2,045.6	2,101.8	2,312.4	2,639.9	2,911.4
FFRDCs admin by indust firms	400.0	439.7	405.4	363.3	364.5	313.6	322.2	353.2	367.3	375.8	395.6
Univ & colleges excluding FFRDCs	1,318.3	1,355.6	1,498.9	1,687.6	1,751.4	1,974.6	2,154.6	2,571.8	2,593.4	2,933.3	3,023.4
FFRDCs administered by univ	540.0	646.1	667.0	697.1	567.6	564.3	575.0	605.4	580.8	601.5	607.4
Nonprofit inst excluding FFRDCs	387.9	427.3	449.0	489.3	490.8	549.5	571.2	680.8	738.1	842.3	855.8
FFRDCs admin by nonprofit inst	95.2	77.1	79.1	84.6	74.9	76.5	65.2	67.3	89.0	101.8	105.9
State and local governments	101.4	104.7	60.0	58.9	60.0	52.7	60.4	77.6	76.1	81.3	74.9
Foreign	83.4	101.1	88.8	107.0	129.7	93.4	94.1	94.6	109.0	101.5	107.6

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-158A. Federal obligations for development by performer: fiscal years 1971-81

[Dollars in millions]

Performer	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	10,419.3	10,948.2	11,218.7	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1
Intramural 1/	2,340.4	2,604.8	2,673.7	2,640.7	2,890.2	2,889.6	3,054.0	3,589.7	3,936.3	3,966.1	4,391.5
Industrial firms excl FFRDCs	6,698.5	6,809.5	6,844.0	6,877.7	7,413.0	8,237.3	9,350.0	9,748.6	10,410.5	10,891.5	12,909.6
FFRDCs admin by indust firms	404.5	454.6	513.6	494.6	568.0	637.3	920.6	1,007.3	1,073.1	1,097.0	1,062.6
Univ & colleges excluding FFRDCs	214.4	260.7	225.5	255.7	338.7	302.1	322.0	446.6	555.5	564.4	545.6
FFRDCs administered by univ	370.0	362.1	370.1	415.2	509.6	512.8	642.8	597.1	687.7	682.2	850.4
Nonprofit inst excluding FFRDCs	176.8	170.9	262.0	258.1	307.7	273.1	287.9	407.3	403.8	427.1	363.6
FFRDCs admin by nonprofit inst	158.2	155.6	132.8	148.6	155.1	173.5	208.3	249.0	295.4	370.1	457.5
State and local governments	45.2	112.9	172.6	123.3	115.7	111.8	122.9	139.6	170.7	114.6	92.9
Foreign	11.4	15.1	24.4	21.0	17.3	22.7	27.9	53.2	77.3	120.1	217.5

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally fundrd research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-1588. Federal obligations for development by performer: fiscal years 1982-92

[Dollars in millions]

Performer	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates	
										1991	1992
Total	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,312.7	38,118.8	40,640.4	41,928.5	39,146.0	44,744.0
Intramural 1/	4,946.8	5,871.7	6,807.6	7,889.3	8,374.6	7,975.3	8,776.2	9,139.5	10,049.2	9,929.0	10,497.2
Industrial firms excl FFRDCs	15,035.6	14,905.5	16,472.9	19,630.5	21,920.7	24,319.6	24,076.7	25,672.9	26,178.4	23,319.9	27,939.7
FFRDCs admin by indust firms	1,019.1	978.5	1,112.0	1,304.9	1,215.0	1,426.4	1,456.1	1,440.2	1,694.9	1,684.7	1,759.4
Univ & colleges excluding FFRDCs	560.0	498.5	517.2	613.5	675.4	697.0	804.8	878.8	1,000.6	990.4	1,019.9
FFRDCs administered by univ	920.0	1,143.8	1,149.9	1,395.1	1,476.0	1,738.6	1,909.1	1,793.6	1,658.3	1,827.0	2,093.1
Nonprofit inst excluding FFRDCs	348.1	404.7	574.6	654.1	614.1	503.4	382.8	479.5	587.4	650.3	650.1
FFRDCs admin by nonprofit inst	416.4	496.1	509.8	592.2	463.3	420.8	422.7	412.4	484.0	509.8	535.0
State and local governments	58.4	49.3	42.8	39.9	37.4	58.0	39.0	46.3	87.5	102.8	115.6
Foreign	106.0	109.9	59.2	106.7	133.9	173.4	251.4	777.3	188.1	132.1	134.1

1/ Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: FFRDCs = Federally funded research and development centers

In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-159A. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1971-81

[Dollars in millions]

Field of science and engineering	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all fields	5,123.2	5,547.7	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8
Life Sciences, total	1,587.8	1,849.0	1,931.1	2,265.1	2,455.2	2,649.7	3,007.7	3,427.1	3,848.3	4,192.3	4,435.6
Biol & agricultural, total	942.8	1,079.7	1,123.2	1,316.2	1,452.2	1,535.8	1,777.6	2,024.0	2,320.3	2,507.6	2,711.8
Biol (excl environmental)	-	-	-	-	-	-	-	1,488.5	1,702.2	1,830.6	1,996.6
Environmental biology	-	-	-	-	-	-	-	184.9	216.6	229.7	220.3
Agricultural	-	-	-	-	-	-	-	350.7	401.5	447.2	494.8
Medical sciences, total	596.7	713.2	758.6	910.8	951.1	1,042.9	1,138.8	1,287.4	1,380.6	1,536.9	1,609.9
Clinical medical	391.0	464.2	494.2	565.7	550.6	586.7	634.4	-	-	-	-
Other medical	205.7	249.0	264.3	345.2	400.5	456.3	504.4	-	-	-	-
Life sciences, n.e.c.	48.2	56.1	49.3	38.1	51.9	71.0	91.4	115.7	147.3	147.9	113.9
Psychology, total	108.0	116.3	109.9	133.4	139.2	144.0	156.2	176.7	197.4	199.0	208.9
Biological aspects	31.3	36.9	32.4	49.3	37.4	43.8	57.6	53.4	56.8	59.9	57.5
Social aspects	54.1	50.7	47.7	52.0	57.1	54.9	54.5	65.4	83.6	94.8	93.5
Psychological sciences, n.e.c.	22.6	28.7	29.8	32.1	44.7	45.3	44.1	57.9	57.0	44.3	57.9
Physical sciences, total	905.4	1,020.3	981.7	1,016.1	1,096.6	1,258.9	1,530.2	1,645.6	1,792.6	2,000.6	2,220.5
Astronomy	126.9	136.4	123.1	136.0	168.3	163.1	197.3	213.6	284.4	285.7	281.0
Chemistry	205.5	246.8	262.5	280.4	285.6	328.4	370.7	405.0	443.6	454.5	486.9
Physics	528.8	573.6	543.2	556.6	595.0	709.3	866.3	942.4	1,022.7	1,182.5	1,345.6
Physical sciences, n.e.c.	44.2	63.5	52.9	43.0	47.8	58.1	95.9	84.6	41.8	77.9	107.0
Environmental sciences, total	534.3	567.6	580.5	636.3	727.3	769.3	906.0	1,024.6	1,101.0	1,261.0	1,121.1
Atmospheric sciences	259.9	241.3	246.6	288.3	302.2	289.3	318.4	319.2	348.7	409.5	373.4
Geological sciences	156.0	161.1	168.4	157.1	191.7	227.2	269.4	316.4	358.7	401.8	396.1
Oceanography	95.8	116.5	97.9	120.0	143.8	164.0	195.9	223.8	220.5	262.1	261.7
Environmental sciences, n.e.c.	22.6	48.7	67.7	71.0	89.5	88.8	122.3	165.2	173.1	187.6	89.9
Math & computer sci, total	106.6	120.7	114.8	114.3	125.3	157.8	195.9	216.3	210.3	240.9	278.9
Mathematics	-	-	-	-	-	69.9	96.4	93.4	84.2	90.9	117.7
Computer sciences	-	-	-	-	-	73.6	89.4	107.3	106.3	128.6	121.5
Math & computer sci, n.e.c.	-	-	-	-	-	14.3	10.1	15.7	19.9	21.4	39.7
Engineering, total	1,486.7	1,450.7	1,370.6	1,563.7	1,717.8	2,068.7	2,112.9	2,421.2	2,571.6	2,830.1	3,071.5
Aeronautical	290.5	209.5	232.7	356.1	345.1	426.8	408.8	482.9	624.9	708.1	709.6
Astronautical	153.2	65.6	45.9	97.5	99.1	179.4	159.0	165.1	251.1	302.3	303.9
Chemical	105.5	77.1	72.0	61.5	83.9	88.3	104.8	149.4	114.3	96.3	147.6
Civil	76.7	123.3	106.2	103.6	125.6	105.9	117.4	142.4	125.0	158.8	159.1
Electrical	277.9	333.7	297.6	269.2	287.0	297.7	382.7	432.6	417.9	517.1	556.7
Mechanical	189.2	174.7	212.9	131.7	162.5	185.7	199.2	234.1	195.9	208.0	204.6
Metallurgy & materials	157.4	182.1	172.5	190.6	221.8	274.9	293.8	286.0	249.3	236.2	256.0
Engineering, n.e.c.	236.3	284.8	230.8	373.5	392.9	410.0	447.2	528.6	593.2	603.3	733.9
Social sciences, total	304.0	306.9	298.8	292.2	301.8	392.5	426.1	489.5	527.3	523.8	497.4
Anthropology	11.7	13.2	11.8	13.4	13.9	13.6	12.4	19.5	17.3	17.2	14.5
Economics	72.8	81.8	88.1	118.0	126.2	137.6	142.9	163.2	181.9	192.8	206.7
Political science	5.0	4.6	7.1	8.5	11.7	7.2	8.5	8.8	13.9	12.2	10.8
Sociology	105.3	119.4	102.1	64.3	54.9	53.6	52.2	60.3	64.5	71.4	65.0
Social sciences, n.e.c.	109.2	88.0	89.7	88.1	95.1	180.4	210.3	237.6	249.6	230.3	200.4
History	4.2	4.5	4.9	6.2	7.0	-	-	-	-	-	-
Linguistics	2.7	3.8	4.2	3.1	3.0	-	-	-	-	-	-
Other social sciences	102.3	79.7	80.6	78.7	85.1	-	-	-	-	-	-
Other sciences, n.e.c.	90.3	116.2	194.0	154.1	166.6	178.6	179.1	205.8	286.6	349.6	378.8

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-159B. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1982-92

[Dollars in millions]

Field of science and engineering	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates 1991	Estimates 1992
Total, all fields	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.4	18,650.0	20,765.3	21,738.9	24,072.0	25,683.4
Life Sciences, total	4,745.5	5,177.9	5,635.9	6,362.5	6,464.3	7,341.4	7,724.5	8,495.1	8,837.8	9,670.3	10,229.9
Biol & agricultural, total	2,811.8	3,064.4	3,325.0	3,755.3	3,861.3	4,358.5	4,573.4	5,020.0	5,186.4	5,633.2	6,042.5
Biol (excl environmental)	2,079.3	2,305.5	2,563.1	2,885.7	2,993.4	3,502.0	3,681.7	3,983.2	4,144.6	4,498.6	4,858.4
Environmental biology	183.5	193.6	250.0	260.3	264.1	289.6	301.0	367.8	342.3	399.5	396.1
Agricultural	549.0	565.2	512.0	609.3	603.8	566.9	590.7	669.0	699.4	735.1	788.0
Medical sciences, total	1,773.0	1,927.5	2,112.8	2,368.5	2,360.4	2,664.8	2,941.0	3,222.5	3,382.4	3,753.8	3,925.1
Clinical medical	-	-	-	-	-	-	-	-	-	-	-
Other medical	-	-	-	-	-	-	-	-	-	-	-
Life sciences, n.e.c.	160.7	186.1	198.1	238.7	242.6	318.2	210.1	252.6	269.1	283.3	262.4
Psychology, total	218.4	240.9	266.7	327.1	334.0	369.5	389.8	421.7	448.6	486.5	522.3
Biological aspects	59.6	63.2	80.8	91.2	90.1	98.3	105.3	121.8	131.7	148.0	157.9
Social aspects	98.1	104.7	107.8	142.9	143.5	154.5	149.4	149.9	180.8	190.3	203.5
Psychological sciences, n.e.c.	60.7	73.0	78.1	93.1	100.4	116.7	135.2	149.9	136.2	148.3	160.9
Physical sciences, total	2,500.4	2,891.4	2,969.0	3,046.0	3,069.1	3,252.6	3,317.3	3,705.2	3,808.7	4,122.6	4,523.5
Astronomy	275.8	357.4	382.3	414.7	468.2	522.2	470.8	541.9	597.2	657.2	741.5
Chemistry	481.2	520.3	606.4	650.4	662.4	680.3	703.1	782.6	761.7	833.7	872.1
Physics	1,610.5	1,854.6	1,836.4	1,816.0	1,805.9	1,853.6	1,975.3	2,190.8	2,254.9	2,423.2	2,609.9
Physical sciences, n.e.c.	132.9	159.2	143.9	164.8	132.6	196.6	168.1	189.9	195.0	208.5	300.0
Environmental sciences, total	1,148.3	1,251.2	1,275.9	1,403.7	1,481.7	1,511.6	1,607.0	1,773.2	2,174.1	2,449.8	2,627.1
Atmospheric sciences	425.8	460.7	434.1	486.0	521.3	552.9	587.8	588.0	773.4	881.6	990.0
Geological sciences	357.6	333.5	359.0	429.0	443.9	441.7	441.6	542.8	661.1	750.7	749.8
Oceanography	261.3	343.5	363.5	398.5	429.7	427.4	460.4	491.9	520.1	586.3	617.4
Environmental sciences, n.e.c.	103.6	113.5	119.3	90.2	86.8	89.5	117.1	150.5	219.5	231.2	269.9
Math & computer sci, total	350.1	419.4	440.3	574.9	615.4	640.6	642.9	735.4	840.7	945.6	1,007.0
Mathematics	128.1	133.5	151.0	183.6	184.5	204.5	217.9	236.1	241.3	265.1	291.2
Computer sciences	170.9	214.6	214.5	280.3	302.4	297.8	292.7	364.6	562.1	639.5	672.1
Math & computer sci, n.e.c.	51.0	71.4	74.8	111.0	128.5	138.3	132.3	134.8	37.3	40.9	43.8
Engineering, total	3,386.5	3,517.0	3,624.1	3,617.6	3,738.9	3,906.2	3,956.2	4,442.0	4,335.2	4,923.5	5,359.3
Aeronautical	741.2	820.6	860.4	738.0	775.6	810.4	801.8	986.8	927.1	1,054.4	1,185.4
Astronautical	290.7	321.5	396.8	424.7	526.9	624.6	575.4	677.4	580.8	620.2	940.3
Chemical	95.1	145.0	144.5	254.3	245.8	215.8	258.1	142.2	241.9	273.4	217.8
Civil	201.9	188.5	202.8	216.6	202.9	204.2	214.7	229.6	317.5	344.3	359.7
Electrical	612.2	614.9	630.0	626.8	674.4	786.3	731.1	843.1	640.0	666.1	682.2
Mechanical	201.2	266.4	190.5	267.0	236.5	233.5	240.8	257.4	268.3	295.5	330.5
Metallurgy & materials	309.1	332.5	341.1	439.2	445.0	362.0	456.7	521.0	554.5	685.4	591.9
Engineering, n.e.c.	935.1	827.6	858.0	651.0	631.7	669.3	677.8	784.5	805.1	984.3	1,051.5
Social sciences, total	385.9	435.3	436.3	460.0	415.5	480.0	485.8	551.0	630.0	772.2	705.7
Anthropology	14.6	12.8	18.6	18.0	13.6	15.2	14.3	13.9	14.4	15.8	17.1
Economics	157.1	165.6	147.3	159.7	131.3	148.5	159.5	166.8	197.2	206.0	199.6
Political science	7.5	11.1	10.8	14.6	11.6	11.3	12.2	13.5	13.1	14.6	17.1
Sociology	52.0	67.8	70.2	66.5	67.0	74.0	81.8	94.1	116.2	167.1	119.4
Social sciences, n.e.c.	154.7	178.0	189.5	201.3	192.0	231.0	219.0	262.8	289.1	368.6	352.6
History	-	-	-	-	-	-	-	-	-	-	-
Linguistics	-	-	-	-	-	-	-	-	-	-	-
Other social sciences	-	-	-	-	-	-	-	-	-	-	-
Other sciences, n.e.c.	287.0	320.4	330.5	341.6	383.3	438.3	526.5	641.6	663.7	701.4	708.5

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-160A. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1971-81

[Dollars in millions]

Field of science and engineering	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all fields	1,980.1	2,186.9	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3
Life Sciences, total	747.5	867.7	888.4	1,032.2	1,115.9	1,222.0	1,383.4	1,568.4	1,891.8	2,054.4	2,223.8
Biol & agricultural, total	519.0	596.8	608.6	691.9	747.0	818.4	933.6	1,078.7	1,279.3	1,339.4	1,462.4
Biol (excl environmental)	-	-	-	-	-	-	-	874.5	1,055.5	1,099.9	1,201.7
Environmental biology	-	-	-	-	-	-	-	64.3	90.8	86.1	83.3
Agricultural	-	-	-	-	-	-	-	139.8	133.0	153.5	177.4
Medical sciences, total	211.1	245.8	253.2	317.6	342.4	374.4	414.8	467.7	560.1	657.0	706.2
Clinical medical	29.0	37.3	35.2	32.9	38.8	41.6	39.6	-	-	-	-
Other medical	182.1	208.5	218.0	284.7	303.5	332.8	375.2	-	-	-	-
Life sciences, n.e.c.	17.3	25.1	26.5	22.7	26.6	29.2	35.0	42.0	52.4	58.0	55.3
Psychology, total	46.0	51.4	45.4	46.1	58.6	45.5	55.7	67.5	75.1	84.2	91.0
Biological aspects	18.6	22.0	18.6	18.6	18.2	18.5	22.5	23.5	26.4	30.2	30.5
Social aspects	22.1	21.5	18.6	18.0	22.2	16.1	20.0	25.3	34.0	31.3	30.2
Psychological sciences, n.e.c.	5.3	7.9	8.2	9.5	18.2	11.0	13.1	18.7	14.7	22.8	30.2
Physical sciences, total	592.9	636.7	628.2	649.6	709.0	721.4	890.0	941.4	1,050.0	1,220.6	1,324.9
Astronomy	124.1	128.9	121.5	133.3	163.0	160.0	193.3	209.8	280.6	279.4	274.2
Chemistry	109.9	140.5	146.4	149.3	158.6	168.3	208.7	203.3	224.8	256.9	298.2
Physics	350.7	361.7	350.8	360.3	379.0	388.4	467.4	518.8	535.6	668.2	735.4
Physical sciences, n.e.c.	8.2	5.6	9.5	6.7	8.3	4.8	20.6	9.5	8.9	16.1	17.1
Environmental sciences, total	261.2	262.7	273.4	291.6	280.8	294.3	387.5	451.3	457.3	522.4	532.8
Atmospheric sciences	121.8	114.8	133.9	138.5	111.0	114.0	143.5	163.3	169.2	179.0	173.8
Geological sciences	76.8	67.0	79.9	80.9	88.6	95.7	128.7	145.1	157.6	198.3	194.2
Oceanography	57.6	71.2	46.2	62.9	73.2	76.6	104.6	120.7	119.1	130.7	143.3
Environmental sciences, n.e.c.	5.1	9.6	13.4	9.4	7.9	8.0	10.7	22.2	11.4	14.3	21.5
Math & computer sci, total	55.3	66.6	60.1	52.7	62.0	81.8	83.4	97.7	104.2	116.3	140.4
Mathematics	-	-	-	-	-	43.2	52.1	55.9	60.0	66.8	79.2
Computer sciences	-	-	-	-	-	26.6	31.0	40.3	43.0	46.2	52.2
Math & computer sci, n.e.c.	-	-	-	-	-	12.0	.3	1.6	1.2	3.2	9.0
Engineering, total	191.3	206.2	220.8	214.9	262.8	272.8	337.7	392.6	434.7	465.2	526.0
Aeronautical	29.1	27.3	34.3	32.2	30.2	32.0	49.5	82.8	88.4	104.2	113.3
Astronautical	11.6	7.7	7.2	11.1	11.3	11.9	10.2	14.9	25.2	27.2	33.2
Chemical	11.6	10.8	12.4	11.3	16.4	18.4	24.0	24.1	24.6	26.1	31.3
Civil	6.3	8.9	10.4	10.1	7.7	7.8	10.4	10.8	14.2	22.0	23.4
Electrical	34.9	41.6	44.0	38.4	47.8	53.1	55.1	57.4	62.0	70.6	78.5
Mechanical	26.0	26.8	27.8	17.3	17.6	20.1	29.6	29.5	35.9	42.2	47.4
Metallurgy & materials	58.2	62.5	67.7	74.6	99.7	103.3	124.9	134.5	151.1	121.3	138.5
Engineering, n.e.c.	13.6	20.6	16.9	19.8	32.2	26.3	33.9	38.4	33.2	51.6	60.5
Social sciences, total	70.2	80.1	80.2	74.8	73.8	86.4	95.	124.3	129.7	147.2	137.0
Anthropology	8.8	9.9	10.7	8.8	7.0	6.4	8.0	12.0	12.5	14.2	13.1
Economics	23.7	23.6	21.7	25.1	22.1	25.6	29.1	33.6	32.7	40.0	34.1
Political science	2.3	2.8	3.0	2.2	1.6	3.0	2.5	3.2	4.1	7.4	6.3
Sociology	16.4	20.7	12.5	14.4	15.1	16.6	15.9	18.6	18.4	25.4	22.6
Social sciences, n.e.c.	19.2	23.1	32.4	24.3	28.0	34.8	39.9	57.0	62.0	60.2	60.9
History	3.7	4.3	4.6	5.9	6.0	-	-	-	-	-	-
Linguistics	1.9	2.5	3.1	2.1	2.1	-	-	-	-	-	-
Other social sciences	13.6	16.3	24.7	16.3	19.9	-	-	-	-	-	-
Other sciences, n.e.c.	15.7	15.6	35.6	25.7	25.5	43.1	25.5	35.4	50.0	63.9	65.4

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-1608. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1982-92

[Dollars in millions]

Field of science and engineering	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates 1991	Estimates 1992
Total, all fields	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6	12,445.9	13,208.0
Life Sciences, total	2,526.0	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9	4,501.8	4,915.7	5,177.5	5,609.7	6,056.4
Biol & agricultural, total	1,674.8	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4	2,855.3	3,102.9	3,219.0	3,492.2	3,782.4
Biol (excl environmental)	1,401.2	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5	2,414.9	2,647.2	2,742.2	2,981.5	3,236.6
Environmental biology	83.2	92.7	120.8	125.7	125.7	141.0	146.8	157.3	168.3	182.5	188.9
Agricultural	190.4	214.2	218.1	283.5	265.7	267.9	293.7	298.4	308.5	328.2	357.0
Medical sciences, total	793.4	878.9	1,015.3	1,145.4	1,196.6	1,341.0	1,573.2	1,708.4	1,849.6	1,999.8	2,149.1
Clinical medical	-	-	-	-	-	-	-	-	-	-	-
Other medical	-	-	-	-	-	-	-	-	-	-	-
Life sciences, n.e.c.	57.8	83.6	97.7	125.7	119.2	150.6	73.2	104.4	108.9	117.7	124.8
Psychology, total	89.9	92.9	107.9	132.8	133.0	147.1	177.8	187.1	215.1	236.2	252.5
Biological aspects	32.9	31.4	43.7	48.0	47.0	49.3	52.4	61.0	65.9	73.1	78.8
Social aspects	33.7	32.8	33.4	46.9	45.3	45.5	40.9	38.1	62.7	69.2	71.4
Psychological sciences, n.e.c.	23.3	28.7	30.8	38.0	40.7	52.3	84.5	88.0	86.5	93.9	102.3
Physical sciences, total	1,393.8	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,199.6	2,506.5	2,661.5	2,961.6	3,144.5
Astronomy	271.1	354.5	379.6	400.7	453.1	504.5	458.5	524.6	579.9	636.9	716.9
Chemistry	312.0	362.2	403.4	425.0	433.4	445.1	470.8	504.6	502.1	549.9	587.7
Physics	790.7	855.1	921.4	959.9	1,003.4	1,072.3	1,205.5	1,395.3	1,474.3	1,659.9	1,692.3
Physical sciences, n.e.c.	20.0	15.4	23.6	29.7	24.7	74.2	64.8	81.9	105.1	114.9	147.6
Environmental sciences, total	520.0	580.1	655.7	699.7	749.1	781.0	872.7	1,016.9	1,274.8	1,412.8	1,509.1
Atmospheric sciences	163.2	172.6	192.2	209.2	240.4	243.8	280.7	316.4	443.7	492.0	561.1
Geological sciences	177.5	178.3	198.0	250.0	265.5	266.2	267.3	334.9	439.7	499.0	516.9
Oceanography	154.5	195.6	220.1	219.3	224.3	249.8	269.4	293.5	299.7	332.0	360.1
Environmental sciences, n.e.c.	24.9	33.5	46.4	21.2	18.9	21.2	55.2	72.1	91.6	89.7	71.0
Math & computer sci, total	165.1	208.1	240.8	260.0	293.4	306.4	313.2	345.8	406.9	452.3	510.4
Mathematics	90.9	100.9	113.9	130.3	142.4	158.4	165.6	167.8	176.3	191.2	216.0
Computer sciences	67.4	90.4	104.8	116.1	131.4	128.5	125.5	159.5	225.2	258.3	289.7
Math & computer sci, n.e.c.	6.8	16.8	22.2	13.6	19.6	19.5	22.4	18.4	5.3	2.7	4.7
Engineering, total	610.5	689.5	845.0	884.2	968.5	989.5	1,006.2	1,183.7	1,101.5	1,279.2	1,212.6
Aeronautical	126.5	140.7	225.5	191.5	226.3	237.4	231.0	327.9	269.6	273.1	293.6
Astronautical	44.8	50.4	52.4	41.6	52.5	48.8	48.4	58.9	62.3	62.7	66.3
Chemical	35.2	50.4	55.5	74.4	73.0	77.5	61.6	50.1	75.8	85.5	70.8
Civil	32.0	32.4	41.9	43.6	45.2	45.7	46.1	51.7	47.3	55.3	61.7
Electrical	93.6	95.8	130.4	144.9	156.3	175.4	154.0	173.8	146.9	152.6	157.0
Mechanical	53.1	60.7	64.1	88.2	83.6	87.2	83.5	100.8	91.4	100.7	110.4
Metallurgy & materials	155.9	182.9	187.3	211.9	228.5	209.8	230.1	254.8	260.2	304.4	286.6
Engineering, n.e.c.	69.4	76.2	87.9	88.2	103.2	107.8	124.4	165.7	147.9	244.9	166.2
Social sciences, total	120.2	137.7	132.6	140.7	113.5	129.5	146.8	154.6	146.0	169.3	172.5
Anthropology	13.1	11.2	16.8	15.8	11.2	12.3	12.1	12.1	12.5	13.7	14.7
Economics	39.0	41.0	29.7	34.3	26.3	29.0	34.7	37.7	37.1	37.6	39.6
Political science	4.4	4.6	4.1	5.8	4.1	5.5	5.1	5.4	6.4	6.8	7.5
Sociology	18.7	32.8	32.9	32.4	30.0	34.3	36.8	38.2	24.2	27.8	27.8
Social sciences, n.e.c.	45.1	48.2	48.1	52.4	41.9	48.4	58.1	61.2	65.8	83.4	82.9
History	-	-	-	-	-	-	-	-	-	-	-
Linguistics	-	-	-	-	-	-	-	-	-	-	-
Other social sciences	-	-	-	-	-	-	-	-	-	-	-
Other sciences, n.e.c.	56.1	73.3	68.8	99.4	122.5	130.9	255.5	291.7	302.3	325.0	350.2

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-161A. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1971-81

[Dollars in millions]

Field of science and engineering	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total, all fields	3,143.0	3,360.8	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5
Life Sciences, total	840.3	981.2	1,042.7	1,233.0	1,339.3	1,427.7	1,624.4	1,838.7	1,956.5	2,137.9	2,211.8
Biol & agricultural, total	423.8	482.9	514.6	624.3	705.2	717.4	844.0	945.3	1,041.0	1,168.1	1,249.4
Biol (excl environmental)	-	-	-	-	-	-	-	614.0	646.7	730.8	794.9
Environmental biology	-	-	-	-	-	-	-	120.5	125.8	143.6	137.0
Agricultural	-	-	-	-	-	-	-	210.8	268.6	293.7	317.4
Medical sciences, total	385.6	467.4	505.4	593.3	608.7	668.6	724.0	819.8	820.5	879.9	903.7
Clinical medical	362.0	426.9	459.0	532.7	511.7	545.1	594.8	-	-	-	-
Other medical	23.6	40.5	46.3	60.5	97.0	123.5	129.2	-	-	-	-
Life sciences, n.e.c.	30.9	31.0	22.8	15.4	25.4	41.7	56.4	73.6	95.0	89.9	58.7
Psychology, total	62.0	64.9	64.6	87.3	80.6	98.5	100.5	109.2	122.3	114.8	117.9
Biological aspects	12.7	14.9	13.8	30.7	19.2	25.3	35.1	29.9	30.4	29.7	27.0
Social aspects	32.0	29.2	29.1	33.9	34.9	38.8	34.5	40.1	49.6	63.5	63.3
Psychological sciences, n.e.c.	17.3	20.8	21.7	22.6	26.5	34.3	30.9	39.1	42.3	21.5	27.7
Physical sciences, total	312.5	383.6	353.5	366.5	387.7	537.5	640.2	704.2	742.6	780.0	895.6
Astronomy	2.8	7.5	1.6	2.7	5.3	3.1	4.0	3.8	3.8	6.3	6.8
Chemistry	95.7	106.3	116.1	131.1	126.9	160.2	162.0	201.7	218.8	197.6	188.7
Physics	178.1	211.8	192.5	196.3	215.0	320.8	398.8	423.6	487.1	514.4	610.2
Physical sciences, n.e.c.	36.0	57.9	43.4	36.3	39.5	53.3	75.3	75.1	32.8	61.8	89.9
Environmental sciences, total	273.1	304.9	307.1	344.7	446.5	475.0	518.5	573.3	643.7	738.6	588.2
Atmospheric sciences	138.1	126.5	112.7	149.8	191.2	175.3	174.9	155.9	179.5	230.5	199.6
Geological sciences	79.2	94.1	88.5	76.2	103.1	131.5	140.7	171.2	201.1	203.4	201.9
Oceanography	38.3	45.3	51.7	57.1	70.6	87.4	91.3	103.1	101.4	131.4	118.4
Environmental sciences, n.e.c.	17.5	39.1	54.3	61.6	81.6	80.8	111.6	143.0	161.7	173.3	68.4
Math & computer sci, total	51.3	54.1	54.7	61.5	63.3	76.0	112.5	118.5	106.1	124.7	138.6
Mathematics	-	-	-	-	-	26.7	44.3	37.5	24.2	24.1	38.6
Computer sciences	-	-	-	-	-	47.0	58.3	67.0	63.3	82.4	69.3
Math & computer sci, n.e.c.	-	-	-	-	-	2.3	9.9	14.1	18.6	18.2	30.7
Engineering, total	1,295.5	1,244.5	1,149.8	1,348.9	1,454.9	1,795.9	1,775.2	2,028.6	2,137.0	2,364.9	2,545.4
Aeronautical	261.4	182.2	198.4	303.9	314.9	494.8	359.3	400.0	536.5	604.0	596.3
Astronautical	141.6	57.8	38.7	86.4	87.8	167.5	148.8	150.2	226.0	275.1	270.8
Chemical	93.9	66.3	59.5	50.1	67.5	69.8	80.8	125.3	89.7	70.2	116.3
Civil	70.5	114.4	95.7	93.5	117.9	98.1	107.0	131.6	110.8	136.8	135.8
Electrical	243.0	292.1	253.6	230.8	239.2	244.6	327.6	375.2	350.8	446.6	478.2
Mechanical	163.2	148.0	185.1	114.4	144.8	165.6	169.5	204.7	160.0	165.8	157.3
Metallurgy & materials	99.2	119.5	104.8	116.0	122.1	171.6	168.9	151.4	98.2	114.6	117.5
Engineering, n.e.c.	222.8	264.2	213.9	353.7	360.7	383.7	413.3	490.2	560.0	551.6	673.4
Social sciences, total	233.7	226.8	218.6	217.4	228.1	306.0	330.6	365.1	397.6	376.6	360.5
Anthropology	3.0	3.3	1.1	4.6	6.9	7.2	4.3	7.6	4.9	2.9	1.5
Economics	49.1	58.2	66.4	92.9	104.2	111.9	113.8	129.6	149.2	152.8	172.6
Political science	2.7	1.7	4.3	6.2	10.1	4.2	5.9	5.6	9.8	4.8	4.5
Sociology	88.9	98.7	89.5	49.9	39.8	37.0	36.2	41.7	46.1	46.1	42.4
Social sciences, n.e.c.	90.0	64.9	57.3	63.8	67.1	145.6	170.3	180.6	187.6	170.1	139.5
History	.5	.2	.2	.3	1.0	-	-	-	-	-	-
Linguistics	.8	1.3	1.1	1.0	.9	-	-	-	-	-	-
Other social sciences	88.8	63.4	55.9	62.5	65.2	-	-	-	-	-	-
Other sciences, n.e.c.	74.6	100.6	158.4	128.4	141.0	135.4	153.6	170.4	236.6	285.7	313.5

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-161B. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1982-92

[Dollars in millions]

Field of science and engineering	1982	1983	1984	1985	1986	1987	1988	1989	1990	Estimates 1991	Estimates 1992
Total, all fields	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,997.9	9,176.4	10,163.3	10,453.3	11,626.0	12,475.5
Life Sciences, total	2,219.5	2,286.6	2,348.3	2,575.9	2,605.5	2,979.5	3,222.7	3,579.4	3,660.3	4,060.6	4,173.6
Biol & agricultural, total	1,137.0	1,135.6	1,150.3	1,239.8	1,318.4	1,488.1	1,718.0	1,917.2	1,967.4	2,141.0	2,260.1
Biol (excl environmental)	678.1	683.7	727.3	779.3	841.9	1,040.5	1,266.8	1,336.0	1,402.5	1,517.1	1,621.8
Environmental biology	100.4	101.0	129.2	134.6	138.3	148.6	154.2	210.5	174.0	217.0	207.3
Agricultural	358.6	351.0	293.8	325.8	338.1	299.1	297.0	370.7	390.9	406.9	431.1
Medical sciences, total	979.6	1,048.5	1,097.5	1,223.1	1,163.8	1,323.8	1,367.8	1,514.1	1,532.7	1,753.9	1,775.9
Clinical medical	-	-	-	-	-	-	-	-	-	-	-
Other medical	-	-	-	-	-	-	-	-	-	-	-
Life sciences, n.e.c.	102.9	102.4	100.4	113.0	123.3	167.6	136.9	148.1	160.2	165.6	137.5
Psychology, total	128.5	147.9	158.8	194.3	201.0	222.4	212.0	234.5	233.5	250.4	269.8
Biological aspects	26.7	31.8	37.1	43.2	43.1	49.1	52.9	60.8	65.8	74.9	79.0
Social aspects	64.4	71.8	74.3	96.0	98.3	108.9	108.4	111.8	118.1	121.1	132.2
Psychological sciences, n.e.c.	37.4	44.3	47.4	55.1	59.7	64.4	50.7	61.9	49.7	54.4	58.7
Physical sciences, total	1,106.5	1,304.3	1,241.0	1,230.8	1,154.6	1,156.6	1,117.7	1,198.8	1,147.2	1,161.1	1,379.0
Astronomy	4.7	3.0	2.7	14.1	15.1	17.7	12.3	17.3	17.2	20.3	24.6
Chemistry	169.2	158.1	203.0	225.4	229.0	235.2	232.3	278.0	259.6	283.8	284.4
Physics	819.8	999.5	915.0	856.1	802.6	781.4	769.8	795.5	780.6	763.4	917.6
Physical sciences, n.e.c.	112.9	143.7	120.3	135.2	107.9	122.4	103.3	108.0	89.8	93.5	152.3
Environmental sciences, total	628.3	671.2	619.2	704.0	732.6	730.6	734.3	756.3	899.3	1,037.1	1,118.1
Atmospheric sciences	262.6	288.1	242.0	276.8	280.9	309.1	307.1	271.6	329.7	389.6	428.9
Geological sciences	180.1	155.2	161.0	179.0	178.4	175.6	174.3	207.8	221.4	251.7	232.9
Oceanography	106.8	147.9	143.4	179.3	205.4	177.6	190.9	198.4	220.4	254.3	257.3
Environmental sciences, n.e.c.	78.7	80.0	72.9	69.0	67.9	68.3	61.9	78.5	127.8	141.5	198.9
Math & computer sci, total	185.0	211.3	199.5	314.9	322.0	334.3	329.6	389.7	433.9	493.3	496.7
Mathematics	37.3	32.6	37.1	53.4	42.1	46.1	52.5	68.3	65.0	73.9	75.2
Computer sciences	103.5	124.1	109.7	164.2	171.0	169.3	167.2	205.1	336.9	381.2	382.4
Math & computer sci, n.e.c	44.3	54.6	52.7	97.3	108.9	118.9	109.9	116.3	31.9	38.2	39.1
Engineering, total	2,776.1	2,827.5	2,779.1	2,733.4	2,770.4	2,916.7	2,950.0	3,258.3	3,233.6	3,644.4	4,146.8
Aeronautical	614.7	679.9	634.9	546.5	549.3	573.0	570.8	658.9	657.5	781.2	891.8
Astronautical	245.9	271.1	344.4	383.2	474.4	575.9	526.9	618.5	518.5	557.5	874.0
Chemical	59.9	94.6	88.9	179.9	172.8	138.3	169.5	92.2	166.0	187.9	147.0
Civil	169.9	156.0	161.0	173.0	157.8	158.6	168.6	177.9	270.2	289.0	298.0
Electrical	518.6	519.1	499.7	481.9	518.1	610.9	577.1	669.3	493.1	513.5	525.2
Mechanical	148.1	205.7	126.3	178.8	153.0	146.2	157.2	156.5	176.9	194.8	220.1
Metallurgy & materials	153.2	149.6	153.7	227.4	216.6	152.2	226.6	266.2	294.3	381.0	305.4
Engineering, n.e.c.	865.7	751.4	770.1	562.8	528.5	561.6	553.3	618.8	557.1	739.4	885.3
Social sciences, total	265.7	297.5	303.8	319.3	302.0	350.5	339.0	396.4	484.0	602.8	533.3
Anthropology	1.5	1.6	1.7	2.1	2.4	2.9	2.2	1.8	1.9	2.1	2.4
Economics	118.2	124.6	117.6	125.4	105.0	119.6	124.8	129.1	160.1	168.4	160.0
Political science	3.2	6.6	6.7	8.9	7.5	5.8	7.1	8.1	6.8	7.8	9.6
Sociology	33.3	35.0	36.3	34.0	37.0	39.6	45.0	55.9	92.0	139.4	91.6
Social sciences, n.e.c.	109.6	129.8	141.4	148.9	150.2	182.6	159.9	201.6	223.3	285.2	269.7
History	-	-	-	-	-	-	-	-	-	-	-
Linguistics	-	-	-	-	-	-	-	-	-	-	-
Other social sciences	-	-	-	-	-	-	-	-	-	-	-
Other sciences, n.e.c.	231.0	247.1	261.7	242.2	260.9	307.4	271.0	350.0	361.5	376.4	358.3

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

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Table C-162. Federal obligations for research and development, by geographic division and State: fiscal years 1980-90

[Dollars in millions]

Division and State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	28,627.3	31,929.6	35,361.6	37,627.8	41,148.5	47,214.8	50,310.2	54,066.8	55,470.3	59,484.3	62,104.3
New England	2,780.7	3,172.5	3,567.3	3,699.9	4,052.7	4,557.0	4,423.0	5,250.2	3,813.7	4,019.1	4,111.0
Connecticut	470.3	485.0	439.6	743.3	675.9	742.8	577.3	672.2	619.5	596.7	509.8
Maine	25.9	24.4	23.9	29.3	38.1	36.7	35.6	178.6	39.8	67.7	39.7
Massachusetts	2,047.7	2,407.1	2,775.2	2,559.3	2,882.6	3,276.7	3,240.3	3,910.8	2,702.0	2,882.5	2,982.8
New Hampshire	50.2	54.8	50.8	76.8	116.4	130.3	136.0	83.6	60.8	98.0	145.1
Rhode Island	149.9	182.5	242.1	267.5	306.1	334.3	392.7	365.4	335.6	314.1	391.1
Vermont	36.6	18.7	35.7	23.7	33.8	36.1	41.1	39.6	55.9	60.1	42.5
Middle Atlantic	3,257.6	3,416.0	3,711.9	4,990.0	5,185.5	6,249.9	6,246.2	5,738.6	5,629.6	6,186.4	6,637.0
New Jersey	729.4	775.4	887.9	1,293.4	1,550.0	1,791.8	1,781.4	1,114.9	1,209.3	1,320.4	1,601.6
New York	1,468.8	1,557.7	1,692.5	2,523.2	2,493.4	3,128.4	3,163.5	2,941.8	2,688.7	2,904.1	2,960.8
Pennsylvania	1,059.4	1,082.9	1,131.5	1,173.3	1,142.2	1,329.6	1,301.3	1,681.9	1,731.6	1,961.9	2,074.6
East North Central	2,316.2	2,349.3	2,260.1	2,505.9	2,923.5	3,223.9	3,274.2	3,697.8	3,668.7	4,190.1	4,491.9
Illinois	599.9	572.6	543.0	567.5	675.6	772.8	745.0	827.3	850.7	909.1	957.2
Indiana	162.4	170.1	186.2	213.6	236.0	227.7	295.1	339.4	312.1	392.5	363.6
Michigan	377.5	357.2	376.7	412.5	479.4	502.1	460.5	453.3	417.5	686.2	810.8
Ohio	1,054.7	1,117.2	1,024.8	1,170.1	1,366.5	1,520.5	1,591.7	1,862.9	1,865.2	1,938.8	2,088.5
Wisconsin	121.7	132.2	129.4	142.4	166.0	200.8	181.9	204.8	223.2	263.5	271.7
West North Central	1,618.5	1,829.6	2,151.3	1,299.6	1,617.4	1,783.0	1,613.0	1,468.9	1,636.0	2,258.4	2,042.4
Iowa	121.7	147.4	136.3	95.2	134.5	150.3	224.3	162.4	197.1	190.9	186.7
Kansas	353.6	471.0	637.7	97.4	101.9	138.1	112.7	94.2	126.7	128.8	116.4
Minnesota	261.6	309.0	378.6	448.2	636.8	718.7	515.4	506.6	576.8	597.3	529.8
Missouri	801.6	820.4	911.3	576.8	659.5	694.2	677.8	614.7	637.6	1,241.9	1,064.3
Nebraska	31.6	31.7	32.0	42.3	33.0	34.6	41.1	48.9	52.1	51.2	76.4
North Dakota	38.7	40.1	36.5	27.2	37.8	32.7	27.2	29.4	32.5	33.3	53.1
South Dakota	9.9	10.2	19.0	12.4	14.0	14.4	14.6	12.8	13.1	15.0	15.7
South Atlantic	6,109.8	6,674.3	7,563.6	8,927.8	9,979.7	11,125.6	12,084.2	12,042.4	13,415.9	13,124.7	13,359.6
Delaware	20.8	25.9	34.6	20.4	63.7	34.7	30.2	32.3	36.0	31.9	28.3
District of Columbia	807.0	921.0	954.6	1,196.1	1,796.0	2,077.7	2,324.0	2,208.5	2,924.6	1,914.2	1,592.2
Florida	1,120.8	1,373.7	1,776.4	1,276.0	1,138.1	1,205.2	1,448.0	2,297.3	2,133.4	2,269.8	2,343.4
Georgia	169.8	195.0	217.3	237.2	245.5	291.8	250.5	352.1	350.4	392.5	364.1
Maryland	2,465.0	2,585.1	2,850.2	3,412.4	3,917.9	4,371.6	4,512.5	4,036.3	4,355.3	4,849.0	5,332.1
North Carolina	227.7	259.8	272.7	312.5	378.3	485.7	497.7	583.8	625.0	562.8	618.6
South Carolina	87.5	96.1	98.7	104.6	119.8	119.9	122.5	123.7	148.7	222.6	230.9
Virginia	1,059.3	1,066.4	1,268.1	2,286.1	2,247.2	2,472.4	2,810.0	2,292.5	2,729.1	2,778.0	2,733.5
West Virginia	152.0	151.2	91.0	82.5	73.3	66.5	88.7	115.8	113.4	104.0	116.6
East South Central	1,395.8	1,603.7	1,486.7	1,386.0	1,541.3	1,694.6	1,981.9	2,324.8	2,184.4	2,494.5	3,198.5
Alabama	455.7	493.5	561.5	671.7	792.6	896.6	1,188.2	1,346.4	1,363.7	1,646.7	1,805.4
Kentucky	107.9	101.0	97.2	93.1	56.5	69.2	59.1	61.9	68.5	73.0	96.5
Mississippi	109.3	125.5	125.7	185.8	145.5	172.4	143.4	184.4	185.1	198.7	471.7
Tennessee	722.9	883.6	702.3	435.5	546.7	556.3	591.3	732.0	567.2	576.0	825.0
West South Central	1,229.3	1,477.1	1,400.1	1,698.4	1,704.0	1,904.4	2,144.6	2,520.4	2,776.4	3,543.4	3,866.3
Arkansas	30.0	31.2	43.5	31.4	35.0	39.7	40.5	52.3	56.4	57.0	85.7
Louisiana	196.3	331.8	236.8	186.6	129.7	118.8	92.4	107.4	101.3	179.6	121.2
Oklahoma	94.5	82.4	65.6	67.9	65.5	81.3	69.8	99.4	103.7	117.6	162.6
Texas	908.6	1,031.7	1,054.3	1,412.6	1,473.8	1,664.6	1,912.0	2,261.3	2,514.9	3,189.2	3,496.8
Mountain	2,568.2	3,116.4	3,002.8	3,913.1	3,949.0	4,508.7	5,579.1	5,104.9	5,293.9	5,555.7	6,128.7
Arizona	334.6	367.7	264.5	469.3	383.9	458.2	398.1	414.9	369.4	501.2	591.7
Colorado	573.7	632.8	556.6	436.2	531.6	629.2	1,636.4	1,516.3	1,408.4	1,610.1	1,088.1
Idaho	147.7	119.5	127.0	223.4	195.2	259.7	266.6	232.7	250.1	155.9	326.1
Montana	45.7	45.4	42.7	35.0	26.6	26.0	26.4	30.1	35.5	36.2	30.9
Nevada	214.5	263.0	376.3	647.1	440.5	490.4	462.6	462.0	443.3	427.5	484.7
New Mexico	954.2	1,224.1	1,322.6	1,804.9	2,104.8	2,368.6	2,500.0	1,998.2	2,296.1	2,220.4	2,311.3
Utah	243.0	305.7	287.9	268.9	232.4	250.9	274.6	427.3	462.0	517.8	437.7
Wyoming	53.9	58.2	25.4	28.4	34.0	25.1	14.5	23.5	29.0	38.5	57.4
Pacific	7,232.4	8,304.6	10,118.0	9,124.0	10,115.9	12,069.6	12,898.0	15,797.7	16,964.5	18,022.8	18,182.6
Alaska	42.5	51.8	40.0	40.4	47.7	51.5	49.4	48.8	50.5	71.3	90.7
California	6,097.7	7,049.7	8,888.3	8,194.9	8,995.8	10,771.8	11,512.3	13,672.2	14,895.9	15,919.4	16,249.3
Hawaii	42.6	49.9	44.5	71.4	52.9	58.2	54.7	63.9	82.2	97.4	100.0
Oregon	97.9	105.6	106.3	108.0	137.8	151.6	127.6	133.9	170.3	168.5	175.6
Washington	951.8	1,047.5	1,038.9	709.3	881.8	1,036.5	1,153.9	1,878.8	1,765.6	1,766.1	1,567.0
Outlying areas	45.3	38.9	40.7	32.0	44.9	62.8	36.8	42.9	33.0	45.7	54.9
Offices abroad	73.5	47.2	59.0	51.0	34.6	35.9	59.2	78.2	54.2	43.4	41.7

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 97 percent or more of the total Federal R&D obligations in that year.

Although the non-geographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table C-163. Federal obligations for R&D plant, by geographic division and State: fiscal years 1980-90

[Dollars in millions]

Division and State	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	1,533.1	1,454.4	1,380.1	1,280.9	1,770.6	1,774.7	1,482.5	2,066.5	2,025.1	2,144.3	2,230.1
New England	24.1	54.2	50.6	37.5	68.8	106.5	24.8	45.1	105.6	59.4	82.3
Connecticut	1.0	9.2	25.1	5.5	5.2	8.4	1.2	.4	1.0	1.4	1.8
Maine	*	*	*	*	*	*	*	*	.3	.1	.7
Massachusetts	20.4	35.7	23.3	29.4	62.8	66.1	17.7	37.0	94.2	54.7	78.2
New Hampshire	*	7.7	.1	.7	.1	.4	.3	.2	*	.2	.3
Rhode Island	2.6	1.6	2.1	1.9	.7	31.6	5.5	6.4	2.0	1.6	.8
Vermont	-	*	-	-	-	-	-	1.0	8.0	1.4	.4
Middle Atlantic	187.4	236.1	173.1	138.2	247.8	134.2	161.7	195.6	224.2	227.4	188.0
New Jersey	60.5	55.7	57.0	42.0	52.7	40.1	37.6	39.8	52.6	46.8	51.3
New York	91.4	85.1	65.0	77.0	175.0	75.3	105.0	114.1	115.3	101.6	100.6
Pennsylvania	35.5	95.2	51.1	19.2	20.1	18.7	19.0	41.7	56.3	79.0	36.0
East North Central	123.3	152.6	107.4	92.2	150.2	171.9	120.3	197.4	153.5	174.6	184.9
Illinois	71.5	74.1	74.3	80.3	81.2	110.1	96.6	94.3	76.7	94.9	116.3
Indiana	.7	.9	.6	1.3	2.8	4.5	.5	5.8	1.9	1.5	1.3
Michigan	8.3	9.5	7.8	1.1	6.4	5.1	1.2	1.4	4.4	4.6	6.6
Ohio	40.3	65.2	23.7	7.5	49.6	46.5	19.2	92.0	68.5	69.8	56.3
Wisconsin	2.5	3.0	1.0	1.9	10.2	5.6	2.7	4.0	2.0	4.0	4.4
West North Central	53.5	7.1	11.2	11.4	12.5	10.0	66.2	82.5	21.2	22.4	29.8
Iowa	2.9	2.1	2.2	2.7	3.5	1.4	3.3	22.7	3.8	6.2	10.4
Kansas	.1	.1	.1	.2	.3	2.3	41.0	49.8	.1	1.6	3.1
Minnesota	.3	.5	.4	.8	3.1	.8	1.1	.4	.7	1.8	1.1
Missouri	40.9	1.8	5.7	6.0	3.9	3.7	4.7	7.4	2.7	3.7	1.9
Nebraska	2.1	.6	.7	.5	.7	.4	7.3	1.4	4.1	2.8	4.1
North Dakota	4.1	1.4	1.2	.9	.9	1.3	8.8	.8	9.2	6.0	7.4
South Dakota	3.1	.7	.9	.2	.1	.1	*	.1	.6	.3	1.7
South Atlantic	181.2	170.3	237.9	251.6	544.9	339.8	239.4	465.1	322.6	415.5	406.4
Delaware	.7	1.6	.1	.4	.6	.4	.4	.4	1.3	.2	*
District of Columbia	14.3	31.7	33.6	24.6	62.4	92.5	28.0	24.3	15.4	17.1	7.4
Florida	46.7	25.5	31.8	37.2	91.2	42.8	53.2	97.4	86.0	100.0	68.3
Georgia	.6	1.6	1.5	2.1	3.8	2.6	15.6	23.1	2.7	10.8	3.6
Maryland	53.3	52.3	82.2	80.8	180.1	145.4	78.6	141.4	79.2	120.1	178.9
North Carolina	8.2	1.2	1.4	4.1	3.6	10.4	2.2	3.4	.9	4.3	3.4
South Carolina	3.1	18.8	65.2	49.6	146.4	7.5	5.7	19.6	8.2	8.9	3.7
Virginia	41.5	33.9	21.1	29.4	52.2	26.7	45.5	138.9	105.5	127.4	128.7
West Virginia	12.9	3.7	1.1	23.3	4.8	11.4	10.2	16.5	23.2	26.7	12.4
East South Central	134.7	109.6	78.4	40.1	110.4	88.1	85.8	150.3	128.2	147.6	220.2
Alabama	47.9	16.5	5.8	6.0	26.4	41.4	41.2	61.4	51.8	47.2	109.7
Kentucky	*	4.3	1.4	.4	.3	.3	.3	1.7	.1	.5	.7
Mississippi	6.6	3.4	5.9	6.4	13.7	12.6	13.5	57.9	19.1	41.1	47.4
Tennessee	80.1	85.5	65.2	27.3	69.9	33.8	30.8	29.4	57.2	58.8	62.4
West South Central	30.8	31.3	34.7	9.9	13.6	23.6	85.0	98.5	83.7	152.4	247.9
Arkansas	.7	.7	1.0	1.5	.5	.5	.9	.5	.4	3.1	2.2
Louisiana	12.6	14.1	22.2	2.4	2.6	2.0	2.2	3.3	31.9	47.2	33.6
Oklahoma	3.2	2.7	1.2	1.3	.9	1.7	2.3	.9	10.7	4.5	1.5
Texas	14.2	13.9	10.2	4.7	9.6	19.4	79.7	93.8	40.7	97.6	210.6
Mountain	284.3	244.9	269.4	294.5	281.0	445.1	318.6	444.4	456.6	413.9	327.3
Arizona	1.8	.4	.4	5.4	3.6	2.9	1.7	19.6	21.8	18.1	2.5
Colorado	35.6	26.9	16.6	43.9	52.3	32.4	16.3	16.4	53.5	62.5	32.3
Idaho	45.1	11.9	21.4	19.7	11.9	8.3	24.7	17.8	39.6	12.0	30.3
Montana	3.7	.1	.1	.2	.2	.2	.2	.2	.2	.2	.5
Nevada	22.4	82.9	30.0	33.0	108.4	155.2	69.9	87.0	103.3	69.3	61.1
New Mexico	169.5	119.3	196.6	191.8	102.3	243.7	192.0	288.8	231.4	239.6	197.9
Utah	1.9	1.5	3.1	.5	2.0	2.4	13.6	14.2	6.8	12.1	2.5
Wyoming	4.3	2.0	1.2	.1	.3	.1	.1	.3	.2	.1	.2
Pacific	509.8	446.2	415.5	403.6	334.5	451.8	362.5	367.4	482.1	512.8	528.0
Alaska	.1	*	*	21.3	.1	12.9	-	-	6.4	-	11.1
California	377.4	355.4	334.6	368.4	316.8	404.2	323.5	315.3	429.0	446.7	489.0
Hawaii	.2	.7	.1	1.6	.6	.9	.6	.6	6.9	.4	1.4
Oregon	3.9	1.0	.1	.2	3.4	1.2	12.0	24.9	8.6	30.1	17.3
Washington	128.2	89.0	80.8	12.0	13.6	32.7	26.4	26.6	31.2	35.5	44.2
Outlying areas	2.9	.7	.5	.2	3.3	1.4	13.9	18.2	46.5	1.5	14.9
Offices abroad	1.1	1.3	1.4	1.7	3.5	2.3	4.5	2.0	.9	16.8	.3

* Amount less than $50,000

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year and represent 97 percent or more of the total Federal R&D obligations in that year.

Although the non-geographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

NATIONAL SCIENCE FOUNDATION
1800 G STREET, N.W.
WASHINGTON, D.C. 20550

March 15, 1991

Dear Survey Respondent:

We are requesting your assistance in completing this year's Federal Funds for Research and Development survey which will again use the computer package PCSURVEY. It may be used on any IBM or IBM-compatible personal computer. PCSURVEY will continue to prompt you with locations for data entry, perform all mathematical edit checks, and allow you to type narrative descriptions with its own word processing system. We have included a copy of Instructions for PCSURVEY in the survey package to supplement the instructions built into the program.

Your survey package includes a computer-generated copy of the questionnaire with the data you provided NSF last year shown in the shuttle columns delineated by an asterisk. This may be especially helpful in the compilation of data and the collection of intra-agency data. It is not necessary to return any paper copy to NSF. We request that your agency's submission be returned to us no later than May 15, 1991.

If you need help on the use of PCSURVEY, or have any questions about the instructions or other problems, please contact Mary Burke or Carolyn Arena at (202) 634-4648.

Please be sure to review the "Attachment" which highlights issues that deserve careful attention in completing this year's survey. We have tried to make the program user-friendly and we are interested in receiving your suggestions for making it better.

Sincerely,

James B. Hoehn
Program Manager
Science and Engineering
Activities Program

Attachment

Enclosures

Attachment

PLEASE GIVE SPECIAL ATTENTION TO THE FOLLOWING ITEMS WHEN COMPLETING THE SURVEY FOR FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT, VOLUME XL, FISCAL YEARS 1990, 1991 and 1992. THANK YOU.

1. Be sure that obligations reported reflect the most current budget and explain any differences between obligations reported in this survey and those reported to the Office of Management and Budget for the 1992 budget.

2. Verify that all R&D activities are included, whether they are represented by a specific R&D appropriation or parts of other appropriations.

3. If you report any extramural funds on tables VI, VII, and VIII, then you must also report some Federal intramural funds on these tables. The rationale is that your agency must spend funds at least for staff time to administer the extramural R&D programs.

4. If your agency sponsors an FFRDC, data should be reported on table IX. If no R&D funds are obligated for FY 90, please provide an explanation.

5. Assure that the presentation of your shuttle explanations provide the reasons for any changes in your obligations levels (for character of work: basic and applied research and development; R&D plant; fields of science and engineering; or performers) from those reported for 1990 and 1991 in last year's survey.

6. Provide explanations of any differences in fiscal year 1990 data provided to the Federal Support to Universities (CASE) survey and data provided on R&D obligations to universities and colleges for this Federal Funds survey. If you do not know your agency's respondent to the CASE survey, call Richard Bennof at (202) 634-4636.

7. If you need additional space for the narrative portion of tables, simply use the command "alt i" while in the narrative block. The command will add an extra line each time it is used.

8. Use the Survey Combine (SURVCOMB) facility on the PCSURVEY diskette if you submit a consolidated agency report.

9. If you need to make additional copies of the PCSURVEY diskette, be sure to use the "diskcopy," not the "copy," command. Use of the "copy" command will not copy hidden files necessary for proper functioning of PCSURVEY.

10. <u>If you are unable to complete your submission prior to our May 15, 1991 deadline</u>, please call Mary Burke at (202) 634-4648.

INSTRUCTIONS FOR REPORTING DATA

ANNUAL SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT

VOLUME XL

Fiscal Years 1990, 1991, and 1992

Conducted by the

NATIONAL SCIENCE FOUNDATION

NSF Form 818

ATTACHMENT 1

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ANNUAL SURVEY OF FEDERAL FUNDS FOR RESEARCH AND DEVELOPMENT

Fiscal Years 1990, 1991, AND 1992

INTRODUCTION

This annual survey is conducted to measure Federal support of, and participation in, national scientific activities in terms of obligations and outlays. The results of this survey will be available in the Federal Funds for Research and Development series, Volume XL.

In this survey, data are to be provided for fiscal years 1990, 1991, and 1992 covering funding support in the areas of research, development, and R&D plant. No new questions have been added. The scope of the survey remains identical with the scope of last year's survey, as follows:

- Obligations and outlays, in summary form, for research and development and R&D plant.
- Obligations for total research, basic research, and applied research, by field of science.
- Obligations for total research, basic research, and applied research performed at universities and colleges, by field of science.
- Obligations for total research, basic research, applied research, and development, by performer.
- Obligations for total research and development and basic research, by foreign country.
- Obligations for R&D plant by performer of the research and development supported.
- Obligations for research and development and R&D plant, by State and performer or performer supported.

Reports from Federal agencies should originate from all organizational subdivisions supporting research, development, or R&D plant.

Please read the instructions carefully before completing the survey.

GENERAL CONCEPTS AND DEFINITIONS

The following general concepts and definitions are applicable throughout the survey.

I. An agency is an organization of the Federal Government whose principal executive officer reports to the President. The Library of Congress, however, whose chief officer reports to the Congress, is also included in the survey. Subdivision refers to any organizational unit of a reporting agency, such as a bureau, division, office or service.

II. Obligations and outlays reported should be consistent with figures shown for fiscal years 1990, 1991, and 1992 appearing in The Budget of the United States Government, Fiscal Year 1992.

Obligations and outlays cover all transactions that occurred in fiscal year 1990, and those estimated for 1991 and 1992. The data should include all Federal funds available to an agency that the agency received or expects to receive, from direct appropriations, trust funds, and special account receipts, corporate income, or other sources, including funds appropriated to the President.

The amounts shown for each year should reflect obligations or outlays for that year regardless of when the funds were originally authorized or received, and regardless of whether or not they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

Each agency should include in the reporting of obligations or outlays the amounts transferred to other agencies for support of research and development. The receiving agencies are not to report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed for an agency in foreign countries should include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.

III. Research, development, and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of research and development, and costs of R&D plant as defined below, regardless of whether the research and development are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). Research and development exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

A. Research is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

In basic research the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

In applied research the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

B. Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

C. Demonstration activities that are part of research or development (i.e., that are intended to prove or to test whether a technology or method does, in fact, work) should be included. Demonstrations intended primarily to make information available about new technologies or methods should not be included.

D. R&D plant (R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable or movable equipment (e.g. spectrometers, microscopes)

and office furniture and equipment. Also excluded are the costs of pre-design studies (e.g. those undertaken before commitment to a specific facility). These excluded costs should be reported under total conduct of research and development. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

IV. Fields of science and engineering in this survey are divided into eight broad field categories, each consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The term not elsewhere classified (n.e.c.) is to be used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following listing presents the fields grouped under each of the broad fields together with illustrative disciplines. (Additional information concerning fields of science and engineering is provided on page 17 under Reporting Guidelines for tables III, IV, and V).

A. Life sciences consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. In no case should the research be reported under more than one field. No double counting is intended or allowed.

Biological (excluding environmental):

anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.

Environmental biology:

ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.

Agricultural:

agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.

Medical:

internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.

Life sciences, n.e.c.

B. Psychology deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences not elsewhere classified. Examples of the disciplines under each of these fields are as follows:

Biological aspects:

Experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology

other bodies of water are to be reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences:

aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology

Geological sciences:

engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences

Oceanography:

biological oceanography; chemical oceanography; geological oceanography; physical oceanography; marine geophysics

Environmental sciences, n.e.c.

E. Mathematics and computer sciences employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under these fields are as follows:

Mathematics:

algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology

Computer sciences:

programming languages; computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis

Mathematics and computer sciences, n.e.c.

F. Engineering is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Aeronautical:

aerodynamics

Astronautical:

aerospace; space technology

Chemical:

petroleum; petroleum refining; process

Civil:

architectural; hydraulic; hydrologic; marine; sanitary and environmental; structural; transportation

Electrical:

communication; electronic; power

Mechanical:

engineering mechanics

Metallurgy & materials:

ceramic; mining; textile; welding

Engineering, n.e.c.

agricultural; bioengineering; biomedical; industrial and management; nuclear; ocean engineering; systems

G. Social sciences are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology, economics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under the fields of social science are as follows:

Anthropology:

archaeology; cultural and personality; social and ethnology; applied anthropology

Economics:

econometrics and economic statistics; history of economic thought; international economics; industrial, labor and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development

Political science:

area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration

Sociology:

comparative and historical; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory

Social sciences, n.e.c.

linguistics; research in education; research in history and philosophy of science; socioeconomic geography; research in law, e.g., attempts to assess impact on society of legal systems and practices

H. Other sciences, n.e.c.: To be used for multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science above.

V. A performer is either an intramural group or organization carrying out an operational function or an extramural organization or person receiving support or providing services under a contract or grant.

A. Intramural performers are the agencies of the Federal Government. Their work is carried on directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself, or they represent funds that the agency transfers to another Federal agency for performance of work as long as the ultimate performer is that agency or any Federal agency. If the ultimate performer is not a Federal agency, the funds so transferred are to be reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities and colleges, or other nonprofit institutions).

NOTE: Intramural activities cover costs associated with the planning and administration of intramural and extramural programs by Federal personnel as well as actual intramural R&D performance. Intramural activities also include the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural research and development. For example, the purchase from an extramural source of an operational launch vehicle (i.e., one that has gone beyond the development or prototype stage) that is used for intramural performance of research and development should be reported as a part of the cost of intramural research and development.

B. Extramural performers are organizations outside the Federal sector that perform with Federal funds under contract or grant. Only those costs associated with actual R&D performance should be reported, but these would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of "off-the-shelf" supplies and equipment procured from extramural suppliers that are required to support intramural research and development should be considered as part of the costs of intramural performance and not as part of the costs of extramural performance.

Extramural performers are identified as follows:

1. Industrial firms: Those organizations that may legally distribute net earnings to individuals or to other organizations.

2. Universities and colleges: Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

3. Other nonprofit institutions: Private organizations other than educational institutions no part of whose net earnings inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

4. Federally funded research and development centers (FFRDC's): FFRDC's do not have a prescribed organizational structure. They can range from the traditional contractor-owned/contractor-operated or Government-owned/contractor-operated (GOCO) organizational structures to various degrees of contractor/Government control and ownership. In general, however, all of the following criteria should be met before an activity is identified as an FFRDC (See page 25 for list):

   a. Performs, analyzes, integrates, supports (non-financial) and/or manages basic research, applied research, and/or development. (Activities primarily engaged in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination are specifically excluded from FFRDC designation).

   b. Performance of the functions in (a) above is either upon the direct request of the Government or under a broad charter from the Government, but in either case the results are directly monitored by the Government. The monitoring, however, shall not be such as to create a personal services relationship, or to cause disruptions that are detrimental to the productivity and/or quality of the FFRDC's work.

   c. The majority of the activity's financial support (70% or more) is received from the Government with a single agency usually predominating in that financial support.

   d. In general, most or all of the facilities are owned by the Government or funded, under contract, by the Government.

   e. The activity is operated, managed and/or administered by either a university or consortium of universities, other nonprofit organization or industrial firm as an autonomous organization or as an identifiable separate operating unit of a parent organization.

f. A long term relationship evidenced by specific agreement exists or is expected to exist between the operator, manager, or administrator of the activity and its primary sponsor.

In addition to the above criteria, the relationship between the activity and the Government should exhibit the following characteristics in order to qualify for FFRDC identification:

a. The activity (organization and/or facilities) is brought into existence at the initiative of a Government agency or bureau to meet some special research or development need which, at the time, cannot be met as effectively by existing in-house or contractor resources.

b. Work from other than a sponsoring agency is undertaken only to the extent permitted by the sponsoring agency and in accordance with the procedures of the sponsoring agency.

c. The activity, whether the operator of its own or a Government-owned facility, has access, beyond that which is common to the normal contractual relationship, to Government and/or supplier data, employees, and facilities needed to discharge its responsibilities efficiently and effectively, whether the data is sensitive/proprietary or not.

d. The primary sponsor undertakes the responsibility to assure a reasonable continuity in the level of support to the activity consistent with the agency's need for the activity and the terms of the sponsoring agreement.

e. The activity is required to conduct its business in a responsible manner befitting its special relationship with the Government, to operate in the public interest free from organizational conflict of interest, and to disclose its affairs (as an FFRDC) to the primary sponsor.

5. State and local governments: State and local government agencies, excluding State or local universities and colleges, agricultural experiment stations, medical schools,

and affiliated hospitals. (Federal R&D funds obligated directly to such State and local institutions should be included under the universities-and-colleges category in this report.) Research and development activities under the State-and-local category are performed either by the State or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are to be reported under this sector and no other.

6. Foreign performers: Foreign citizens, foreign organizations, or foreign governments, as well as international organizations, such as NATO, UNESCO, WHO, performing work abroad financed by the Federal Government. Excluded are U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "off-shore" payments. An exception is made in the case of U.S. citizens performing research and development abroad under special foreign currency funds; these activities are included under foreign performers. Foreign scientists performing in the United States are excluded, however.

7. Private individuals: In the case of an R&D grant or contract awarded directly to a private individual, place obligations incurred under "industrial firms."

INSTRUCTIONS FOR REPORTING OBLIGATIONS AND OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT

REPORTING GUIDELINES

Shuttle data: These figures (located in the columns indicated with asterisks on the enclosed tables) are the estimates provided by agencies for fiscal years 1990 and 1991 in last year's survey (Federal Funds,XXXIX). They are included in the present survey for purposes of comparison. If there are important differences (increases or decreases) between the current report and last year's report for fiscal years 1990 and 1991 explain the reasons in the narrative section of PCSURVEY.

Cost coverage: Obligations and outlays reported should reflect full costs. In addition to costs of specific scientific projects, applicable overhead costs should also be included.

Thus, the amounts reported should include the costs of planning and administration of both intramural and extramural R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

Character of work: Classifying research and development on the basis of the character of the work, i.e., basic research, applied research, or development, may present problems. It may be necessary in some cases to employ a measure of judgment in distributing obligations among categories. In cases where an overlap exists, funds should be assigned to the category most appropriate to the principal type of work supported.

Intramural transfer of funds: A Federal agency that transfers funds to another Federal agency for the support of research and development should report such obligations or outlays as its own. The receiving agency is not to report, for purposes of this survey, on funds transferred to it from another agency. A subdivision of an agency that transfers funds to another subdivision within that agency should also report such obligations or outlays as its own.

To assure that no undue distortion of funds for intramural performance of research and development takes place, the agency transferring the funds should make a special effort, within practical limits, to determine whether the ultimate performer is intramural or extramural and report accordingly. The transfer of funds to another Federal agency should not be the sole basis for reporting that the R&D performance is intramural.

TABLES

Table I is for reporting outlays only.

Table II is for reporting obligations only. Obligations shown in items 5 and 6 of table II should be identified by appropriation titles and program activities as part of the descriptive narrative.

Tables III, IV, and V are for the reporting of obligations for research by field of science.

Definitions and a guide relating to fields of science are provided on pages 3 through 15, although the examples provided for the disciplines are not intended as a complete enumeration. Every effort should be made to allocate obligations to a specific discipline rather than to the "not elsewhere classified (n.e.c.)" category. If specific allocation is not feasible, however, obligations reported under the n.e.c. category should be identified in an explanatory note. In reporting obligations for activities concerned with interdisciplinary studies funds must not be double-counted.

Tables VI, VII, and VIII cover reporting of obligations by performer. Definitions of performers appear on pages 11 to 15. Item 2 is for identification of obligations for intramural personnel services and related allowances, as defined in OMB Circular A-34, Section 25,1A. Such obligations cover salaries for scientists and engineers and other intramural support personnel, including planning and administrative personnel.

Items 4, 6, and 8 are for identification of obligations to federally funded research and development centers (FFRDC's) appearing on Table IX and on the list of FFRDC's (pages 25 to 28). Each agency should report obligations to each FFRDC that it uses that appears on that list, even though the FFRDC may be sponsored by another agency. Obligations to FFRDC's administered by university consortia should be included in the amounts under item 6.

Agencies may not unilaterally delete organizations classified as FFRDC's from the list or add organizations thereto. Inquiries concerning additions or deletions to the list of FFRDC's should be directed to Mary Burke, Division of Science Resources Studies, National Science Foundation. Additional information concerning FFRDC's is provided on pages 13 and 14 under General Concepts and Definitions, and in Reporting Guidelines for Table IX.

Item 9 is for identification of obligations to State and local government agencies for R&D activities financed by the Federal Government.

Item 11 is for identification of obligations for R&D performance by foreign individuals or foreign organizations (including international organizations in foreign countries) that is financed by Federal agencies. Obligations made with funds separately appropriated for special foreign currency programs should be included in the totals for foreign obligations (item 11) and separately identified in item 12. These special foreign currencies are derived largely from funds provided under Public Law 480, 1954, as amended. Care should be taken to report foreign performance only once. For example, if a foreign performer is an educational institution, obligations to that institution should be reported only under foreign performance and not also under universities and colleges.

Table IX provides for reporting additional information on fiscal year 1990 R&D and R&D plant obligations to FFRDC's. This table requires the breakdown of obligations for research and development reported in items 4, 6, and 8 of table VI by each FFRDC listed. This table also requires the breakdown by individual FFRDC of obligations for R&D plant reported in items 3, 5, and 7 of table XI for FY 1990. Each agency should report obligations to each FFRDC it supports, even though the FFRDC is sponsored by another agency. Pages 25 to 28 provide a list of FFRDC's by sponsoring agency and administering organization.

Table X. Countries included in each geographic area are as follows:

Europe: All countries of continental Europe and the British Isles. Excluded are Greece and Turkey, which are classified under the Near East.

Near East: Greece, Iran, Iraq, Israel, Jordan, Lebanon, Saudi Arabia, Sudan, Turkey, and Egypt.

Asia: All countries of continental Asia and Japan, the Philippines, Sumatra, and Borneo. Excluded are Iran, Iraq, Israel, Jordan, Lebanon, and Saudi Arabia, which are included under the Near East.

Africa: All countries of continental Africa except Egypt and the Sudan, which are under the Near East.

Latin America: All countries of continental South America, Central America, the Caribbean, and Mexico.

Note that for table X, data for fiscal years 1991 and 1992 are not required.

Table XI provides for reporting obligations for R&D plant by the performer of research and development that the R&D plant supports regardless of the plant's ownership or location.

Under item 1 report obligations for R&D plant that are provided to support research and development performed intramurally.

Under item 2 report obligations for R&D plant that are provided to support research and development by industrial firms excluding FFRDC's.

Under item 3 report the amount obligated for R&D plant that is provided to support research and development performed by FFRDC's administered by industrial firms.

Under items 4 and 5 report obligations for R&D plant that are provided to support R&D performance by universities and colleges excluding FFRDC's and those that are provided to support university-administered FFRDC's.

Under items 6 and 7 report the same information for nonprofit performers.

Under item 8 report obligations for R&D plant that are provided to support research and development performed by State and local governments.

Under item 10 report obligations for R&D plant located abroad that are provided to support foreign research and development.

Note that the performer of research and development determines the classification of R&D plant obligations.

Tables A and B. Data are to be provided by the Departments of Agriculture, Commerce, Defense, Energy, the Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions that were provided earlier in these instructions for research and development, R&D plant, and performers apply to these tables.

- Tables A and B are to be used for reporting the geographic distribution of FY 1990 obligations for research and development (table A) and R&D plant (table B) by State and performer or performer supported. The performer categories are provided in each table.

- R&D obligations to foreign performers or R&D plant obligations in support of foreign performers should not be reported.

- In table A the obligations for research and for development should be provided as a combined amount.

- Both intramural and extramural obligations are required. The extramural obligations are to be reported in terms of prime contracts or grants.

- The principal location (State, outlying area, etc.) where the work was performed by the prime contractor, grantee, or intramural organization should be used as the basis of reporting. Where this information is not available in existing records, the obligations should be assigned to the State, outlying area, etc. where the principal plant or operational center of the prime contractor, grantee, or intramural organization was located.

- The amounts reported in these tables for each performer should add to the totals reported for tables VI and XI of the Federal Funds survey.

Tables C, D, and E. Data for these tables are to be provided by the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation.

Definitions for basic research, applied research, total research, universities and colleges, and field of science and engineering that were provided earlier in these instructions apply to these tables also.

- The total obligations reported in tables C, D, and E must equal obligations for basic research, applied research, and the combined obligations for basic and applied research reported for item 5 of tables VI, VII, and VIII of the survey.

The shuttle data provided in the areas of tables C and D enclosed by asterisks represent estimates provided by agencies for fiscal years 1990 and 1991 in last year's survey (Federal Funds, Volume XXXIX). Shuttle data are included for purposes of comparison. If there are significant differences (increases or decreases) in the distribution among the fields of science and engineering between the current report and last year's report for fiscal years 1990 and 1991, explain the reasons in the narrative section.

NARRATIVE STATEMENTS

Sheets are provided as worksheets for reporting a description of the content and objectives of the research, development, and R&D plant programs being supported in fiscal years 1990, 1991, and 1992, prior to being entered in the narrative section of PCSURVEY.

Respondents are requested to identify R&D and R&D plant obligations by appropriation title and by program activity or subactivity within each appropriation, as shown in The Budget, Fiscal Year 1992.

For each program activity or subactivity the R&D and R&D plant obligations should be given for fiscal years 1990, 1991, and 1992.

In addition, brief descriptions should be provided of the research and development or R&D plant construction supported under each program activity or subactivity, including reasons for increases or decreases during the 3-year period.

Respondents are encouraged to confer with the staff of the National Science Foundation in the development of descriptive material on programs.

RELATIONSHIP TO THE OFFICE OF MANAGEMENT AND BUDGET DATA

In response to Office of Management and Budget (OMB) Circular No. A-11 (Section 44, Exhibit 44), agencies provide OMB with data on their obligations and outlays for research and development by character of work and R&D plant. They also provide data on R&D obligations and outlays to universities and colleges. OMB publishes some of these data in the budget document, Special Analyses, Budget of the United States Government. This document includes a report on the R&D portion of the budget, but in its coverage of R&D data it does not provide as much detail on character of work or performers as Federal Funds and provides no information on fields of science or geographic distribution. Both Federal Funds and OMB use the same general definitions and guidelines. Therefore, for the overall amounts reported for total research or development for distribution by character of work, and for R&D plant, data reported in the Federal Funds survey and to OMB should be the same.

If there are differences between the R&D data submitted for the Federal Funds report and to OMB each reporting agency or subdivision should provide an explanation for differences in total R&D obligations, basic research obligations, and R&D obligations to universities and colleges.

RELATIONSHIP TO (CASE) SURVEY ON FEDERAL OBLIGATIONS TO INDIVIDUAL UNIVERSITIES AND COLLEGES FOR FY 1990

The following agencies have been requested to provide data to the Federal Support to Universities (CASE) survey: the Departments of Agriculture, Commerce, Defense, Education, Energy, Housing and Urban Development, the Interior, Health and Human Services, Labor, State(AID), and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; the National Science Foundation; and the Nuclear Regulatory Commission.

These agencies have been requested to provide specific obligational data for fiscal year 1990 to NSF in response to the reporting system established in 1965 by the Committee on Academic Science and Engineering(CASE) of the Federal Council for Science and Technology; this survey is referred to in these instructions as the Federal Support to Universities(CASE) survey. The requested data cover obligations for research and development and R&D plant to universities and colleges and to FFRDC's administered by universities as well as data on other activities. In general the concepts and definitions used in the Federal Support to Universities (CASE) survey conform with the general guidelines in the annual Federal Funds survey. Thus, for agencies participating in both surveys, overall totals for research and development and R&D plant to universities and colleges and also to FFRDC's administered by universities should be substantially the same. Where differences appear in data reported for the two surveys, each reporting agency or subdivision should provide an explanation for the differences.

Different totals can sometimes result from the fact that for the Federal Funds survey and the Federal Support to Universities (CASE) survey reporting is accomplished in different ways. For the Federal Funds survey each agency includes in its reporting the amounts transferred to other agencies for furtherance of its own purposes; the receiving agencies do no report funds transferred to them. In the Federal Support to Universities (CASE) survey, however, the data are reported by the agencies in terms of individual performing institutions, and because of this requirement, only the agency that makes the final distribution of the funds can readily determine where the transferred or reimbursable funds are obligated. For this reason agencies reporting to the Federal Support to Universities (CASE) survey include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the procedure for the Federal Funds survey.

Federally Funded Research and Development Centers (FFRDCs)

The following is a list of the centers to be used in providing information for tables VI, VII, VIII, IX, and XI. The list is arranged by sponsoring agency and administering organization. Respondents will report under the FFRDC category funds obligated to centers identified on this list.

Department of Defense

Office of the Secretary of Defense

Administered by other nonprofit institutions 1/:

Institute for Defense Analyses (IDA), Alexandria, VA
Logistics Management Institute (LMI), Bethesda, MD
National Defense Research Institute (RAND Corp. 2/), Santa Monica, CA
C3I Federal Contract Research Center (MITRE Corp. 3/), Bedford, MA

Defense Advanced Research Projects Agency

Administered by universities and colleges:

Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA

Department of the Navy

Administered by other nonprofit institutions:

Center for Naval Analyses, Alexandria, VA

Department of the Air Force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo, CA
Project Air Force (RAND Corp. 2/), Santa Monica, CA

Department of the Army

Administered by universities and colleges:

Institute for Advanced Technology (University of Texas), Austin, TX

Administered by other nonprofit institutions:

Arroyo Center (RAND Corp. 2/), Santa Monica, CA

Department of Health and Human Services

National Institutes of Health

Administered by industrial firms:

Frederick Cancer Research and Development Center (Program Resources, Inc.; BioScience Laboratories, Inc.; Harlan Sprague Dawley, Inc.; Data Management Services, Inc.), Frederick, MD

Department of Energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (Westinghouse Electric Corp.), West Mifflin, PA
Hanford Engineering Development Laboratory (Westinghouse Hanford Co.), Richland, WA
Idaho National Engineering Laboratory (EG&G Idaho; Inc. Rockwell International Corp.; Argonne National Laboratory, West; Westinghouse Electric Corp.), Idaho Falls, ID
Knolls Atomic Power Laboratory (General Electric Co.), Schenectady, NY
Energy Technology Engineering Center (Rockwell International Corp.), Canoga Park, CA
Oak Ridge National Laboratory (Martin Marietta Energy Systems, Inc.), Oak Ridge, TN
Sandia National Laboratory (AT&T Technologies, Inc.), Albuquerque, NM
Savannah River Laboratory (Westinghouse Electric Corp.), Aiken, SC

Administered by universities and colleges:

Ames Laboratory (Iowa State University of Science and Technology), Ames, IA.
Argonne National Laboratory (University of Chicago), Argonne, IL
Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY
Continuous Electron Beam Accelerator Facility (Southeastern Universities Research Association), Newport News, VA
Lawrence Berkeley Laboratory (University of California), Berkeley, CA
Lawrence Livermore National Laboratory (University of California), Livermore, CA
Fermi National Scientific Laboratory (Universities Research Association, Inc.), Batavia, IL
Los Alamos National Scientific Laboratory (University of California), Los Alamos, NM
Oak Ridge Associated Universities (Oak Ridge Associated Universities, Inc.), Oak Ridge, TN
Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ
Stanford Linear Accelerator Center (Leland Stanford, Jr. University), Stanford, CA

Administered by other nonprofit institutions:

Inhalation Toxicology Research Institute (Lovelace Biomedical and Environmental Research Institute), Albuquerque, NM
Pacific Northwest Laboratories (Battelle Memorial Institute), Richland, WA
Solar Energy Research Institute (Midwest Research Institute), Golden, CO

National Aeronautics and Space Administration

Administered by universities and colleges:

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

National Science Foundation

Administered by universities and colleges:

National Astronomy and Ionosphere Center (Cornell University) Arecibo, PR
National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO

National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc. 4/), Tucson, AZ
National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV

Nuclear Regulatory Commission

Administered by other nonprofit institutions:

Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX

Transportation, Department of

Federal Aviation Administration

Administered by other nonprofit institutions:

Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA.

NOTES

1/ That is, other than universities and colleges.

2/ The following portions of the RAND Corporation should be reported as FFRDCs: Project Air Force, National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), and the Arroyo Center. All other agency support to RAND should be reported under "other nonprofit institutions excluding FFRDCs."

3/ Only the C3I Division of the MITRE Corporation should be reported as an FFRDC. All other agency support to MITRE should be reported under "nonprofit institutions excluding FFRDCs."

4/ Since February 1984 this center includes three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory and the National Solar Observatory (formerly Sacramento Peak Observatory).

TABLE I

Outlays for research and development and R&D plant
fiscal years 1990, 1991, and 1992

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	R&D AND R&D PLANT	FY 1990		FY 1991		FY 1992
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Estimate	FF XL Estimate
	Research & development					
1	Total, research & development.....					
	R&D plant					
2	Total, R&D plant..					
0	Total research & development and R&D plant.....					
3	R&D plant as % of item 0.....	%	%	%	%	%

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TABLE II

Summary of obligations for research and development and R&D plant
fiscal years 1990, 1991, and 1992

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	CHARACTER OF WORK	FY 1990		FY 1991		FY 1992
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Estimate	FF XL Estimate
1	Basic research....					
	As % of item 5..	%	%	%	%	%
2	Applied research..					
	As % of item 5..	%	%	%	%	%
3	Total research 1/.					
	As % of item 5..	%	%	%	%	%
4	Development.....					
	As % of item 5..	%	%	%	%	%
5	Total research & development.....					
6	Total R&D plant...					
	As % of item 0..	%	%	%	%	%
0	Total research & development and R&D plant...					

1/ Basic research plus applied research equals total research.

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TABLE III

Obligations for basic, applied, and total research
by field of science and engineering, fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual
100000	Life sciences, total						
103020	Biological (excl. envrmtl.)						
103040	Environmental biology						
103060	Agricultural						
106000	Medical						
109000	Life sciences, n.e.c. 2/						
200000	Psychology, total						
201000	Biological aspects						
202000	Social aspects						
209000	Psychological sci., n.e.c.						
300000	Physical sciences, total						
301000	Astronomy						
302000	Chemistry						
303000	Physics						
309000	Physical sciences, n.e.c. 2/						
400000	Environmental sciences, total						
401000	Atmospheric						
402000	Geological						
403000	Oceanography						
409000	Environmental sci., n.e.c. 2/						

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TABLE III (cont.)

Agency

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual
500000	Mathematics and computer sciences, total.....						
501000	Mathematics.....						
502000	Computer sciences.....						
509000	Math. & compt. sci., n.e.c. 2/						
600000	Engineering, total.....						
601000	Aeronautical.....						
602000	Astronautical.....						
603000	Chemical.....						
604000	Civil.....						
605000	Electrical.....						
606000	Mechanical.....						
607000	Metallurgy and materials.....						
609000	Engineering, n.e.c. 2/.....						
700000	Social sciences, total.....						
701000	Anthropology.....						
702000	Economics.....						
705000	Political science.....						
706000	Sociology.....						
709000	Social sciences, n.e.c. 2/.....						
800000	Other sciences, n.e.c. 2/.....						
000000	Total, all fields 3/						

1/ Basic research plus applied research equals total research.
2/ Not elsewhere classified.
3/ Totals equal items 1, 2, and 3, respectively, in table II for 1990 for basic res., applied res., and total res.

TABLE IV

Obligations for basic, applied, and total research
by field of science and engineering, fiscal year 1991

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate
100000	Life sciences, total.....						
103020	Biological (excl. envrmtl.) ...						
103040	Environmental biology.....						
103060	Agricultural.....						
106000	Medical.....						
109000	Life sciences, n.e.c. 2/.....						
200000	Psychology, total.....						
201000	Biological aspects.....						
202000	Social aspects.....						
209000	Psychological sci., n.e.c.						
300000	Physical sciences, total.....						
301000	Astronomy.....						
302000	Chemistry.....						
303000	Physics.....						
309000	Physical sciences, n.e.c. 2/...						
400000	Environmental sciences, total....						
401000	Atmospheric.....						
402000	Geological.....						
403000	Oceanography.....						
409000	Environmental sci., n.e.c. 2/..						

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Agency

TABLE IV (cont.)

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate
500000	Mathematics and computer sciences, total						
501000	Mathematics						
502000	Computer sciences						
509000	Math. & compt. sci., n.e.c. 2/						
600000	Engineering, total						
601000	Aeronautical						
602000	Astronautical						
603000	Chemical						
604000	Civil						
605000	Electrical						
606000	Mechanical						
607000	Metallurgy and materials						
609000	Engineering, n.e.c. 2/						
700000	Social sciences, total						
701000	Anthropology						
702000	Economics						
705000	Political science						
706000	Sociology						
709000	Social sciences, n.e.c. 2/						
800000	Other sciences, n.e.c. 2/						
000000	Total, all fields 3/						

1/ Basic research plus applied research equals total research.
2/ Not elsewhere classified.
3/ Totals equal items 1, 2, and 3, respectively, in table II for 1991 for basic res., applied res., and total res.

TABLE V

Obligations for basic, applied, and total research
by field of science and engineering, fiscal year 1992

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research	Applied research	Total research 1/
		FF XL Estimate	FF XL Estimate	FF XL Estimate
100000	Life sciences, total.....			
103020	Biological (excl. envrmtl.) ...			
103040	Environmental biology.....			
103060	Agricultural.....			
106000	Medical.....			
109000	Life sciences, n.e.c. 2/.....			
200000	Psychology, total.....			
201000	Biological aspects.....			
202000	Social aspects.....			
209000	Psychological sci., n.e.c.			
300000	Physical sciences, total.....			
301000	Astronomy.....			
302000	Chemistry.....			
303000	Physics.....			
309000	Physical sciences, n.e.c. 2/...			
400000	Environmental sciences, total....			
401000	Atmospheric.....			
402000	Geological.....			
403000	Oceanography.....			
409000	Environmental sci., n.e.c. 2/..			

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TABLE V (cont.)

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research	Applied research	Total research 1/
		FF XL Estimate	FF XL Estimate	FF XL Estimate
500000	Mathematics and computer sciences, total			
501000	Mathematics			
502000	Computer sciences			
509000	Math. & compt. sci., n.e.c. 2/			
600000	Engineering, total			
601000	Aeronautical			
602000	Astronautical			
603000	Chemical			
604000	Civil			
605000	Electrical			
606000	Mechanical			
607000	Metallurgy and materials			
609000	Engineering, n.e.c. 2/			
700000	Social sciences, total			
701000	Anthropology			
702000	Economics			
705000	Political science			
706000	Sociology			
709000	Social sciences, n.e.c. 2/			
800000	Other sciences, n.e.c. 2/			
000000	Total, all fields 3/			

1/ Basic research plus applied research equals total research.
2/ Not elsewhere classified.
3/ Totals equal items 1, 2, and 3, respectively, in table II for 1992 for basic research, applied research, and total research.

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TABLE VI

Obligations for research and development by performer and character of work
fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	PERFORMER	Basic research		Applied research		Development	
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual
01	Federal intramural 1/						
	As % of total (item 00)	%	%	%	%	%	%
02	Personnel costs 2/	( )	( )	( )	( )	( )	( )
03	Indust. firms excl. FFRDCs 3/						
	As % of total (item 00)	%	%	%	%	%	%
04	FFRDCs 3/ adm. by indust. firms						
	As % of total (item 00)	%	%	%	%	%	%
05	Univ. & coll., excl. FFRDCs 3/						
	As % of total (item 00)	%	%	%	%	%	%
06	FFRDCs 3/ adm. by univ. & coll.						
07	Nonprofit inst. excl. FFRDCs 3/						
08	FFRDCs 3/ adm. by nonprof. inst.						
09	State and local governments						
10	Total, all domestic performers						
11	Foreign 4/						
12	Amount of item 11 supported by separate appropriations for "spec. foreign currency prog."	( )	( )	( )	( )	( )	( )
00	Total, all performers 5/						

1/ For each total (basic research, applied research or development), there must be an entry for item 1 (Federal intramural). Even if all work is performed extramurally, the costs associated with the planning and administration of such programs by Federal personnel must be reported.
2/ Amount of item 1 for personnel costs.
3/ Federally funded research and development centers. (See instructions for list.)
4/ See instructions for definition of foreign performers.
5/ Totals equal items 1, 2, and 4, respectively, in table II for 1990 for basic research, applied res., and development.

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TABLE VII

Obligations for research and development by performer and character of work
fiscal year 1991

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

Item	PERFORMER	Basic research		Applied research		Development	
		FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate
01	Federal intramural 1/						
	As % of total (item 00)	%	%	%	%	%	%
02	Personnel costs 2/	( )	( )	( )	( )	( )	( )
03	Indust. firms excl. FFRDCs 3/						
	As % of total (item 00)	%	%	%	%	%	%
04	FFRDCs 3/ adm. by indust. firms						
	As % of total (item 00)	%	%	%	%	%	%
05	Univ. & coll., excl. FFRDCs 3/						
	As % of total (item 00)	%	%	%	%	%	%
06	FFRDCs 3/ adm. by univ. & coll.						
07	Nonprofit inst. excl. FFRDCs 3/						
08	FFRDCs 3/ adm. by nonprof. inst.						
09	State and local governments						
10	Total, all domestic performers						
11	Foreign 4/						
12	Amount of item 11 supported by separate appropriations for "spec. foreign currency prog."	( )	( )	( )	( )	( )	( )
00	Total, all performers 5/						

1/ For each total (basic research, applied research or development), there must be an entry for item 1 (Federal intramural). Even if all work is performed extramurally, the costs associated with the [illegible]ing and administration of such programs by Federal personnel must be reported.
2/ Am[illegible] item 1 for personnel costs.
3/ Fe[illegible] funded research and development centers. (See instructions for list.)
4/ See instructions for definition of foreign performers.
5/ Totals equal items 1, 2, and 4, respectively, in table II for 1991 for basic research, applied res., and development.

TABLE VIII

OMB No. 3145-0003
Interagency Report Control
No. 1155 NSF-AN

Obligations for research and development by performer and character of work
fiscal year 1992

(Dollars in thousands)

Agency _____

Item	PERFORMER	Basic research	Applied research	Development
		FF XL Estimate	FF XL Estimate	FF XL Estimate
01	Federal intramural 1/			
	As % of total (item 00)	%	%	%
02	Personnel costs 2/	( )	( )	( )
03	Indust. firms excl. FFRDCs 3/...			
	As % of total (item 00)	%	%	%
04	FFRDCs 3/ adm. by indust. firms.			
	As % of total (item 00)	%	%	%
05	Univ. & coll., excl. FFRDCs 3/..			
	As % of total (item 00)	%	%	%
06	FFRDCs 3/ adm. by univ. & coll..			
07	Nonprofit inst. excl. FFRDCs 3/.			
08	FFRDCs 3/ adm. by nonprof. inst.			
09	State and local governments			
10	Total, all domestic performers ..			
11	Foreign 4/			
12	Amount of item 11 supported by separate appropriations for "spec. foreign currency prog.".	( )	( )	( )
00	Total, all performers 5/			

1/ For each total (basic research, applied research or development), there must be an entry for item 1 (Federal intramural). Even if all work is performed extramurally, the costs associated with the planning and administration of such programs by Federal personnel must be reported.
2/ Amount of item 1 for personnel costs.
3/ Federally funded research and development centers. (See instructions for list.)
4/ See instructions for definition of foreign performers.
5/ Totals equal items 1, 2, and 4, respectively, in table II for 1992 for basic research, applied res., and development.

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TABLE IX

Obligations for research and development and R&D plant at individual federally funded research and development centers, fiscal year 1990

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

(Dollars in thousands)

Agency _____

Federally funded research and development centers (FFRDCs). (Report obligations for any FFRDC used by respondent agency.)	R&D obligations	R&D plant obligations
Administered by industrial firms:		
Bettis Atomic Power Laboratory (Westinghouse Electric Corp.), West Mifflin, PA		
Frederick Cancer R&D Center (Program Resources, Inc.), Frederick, MD		
Hanford Engineering Development Laboratory (Westinghouse Hanford Corp.), Richland, WA		
Oak Ridge National Laboratory (Martin Marietta Energy Systems, Inc.), Oak Ridge, TN		
Idaho National Engineering Laboratory (EG&G Idaho, Inc.), Idaho Falls, ID		
Knolls Atomic Power Laboratory (General Electric Company), Schenectady, NY		
Energy Technology Engineering Center (Rockwell International Corporation), Canoga Park, CA		
Sandia National Laboratory (AT&T Technologies, Inc.), Albuquerque, NM		
Savannah River Laboratory (Westinghouse Electric Corp.), Aiken, SC		
T o t a l	1/	2/
Administered by universities and colleges:		
Ames Laboratory (Iowa State University of Science and Technology), Ames, IA		
Argonne National Laboratory (University of Chicago), Argonne, IL		
Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY		
Continuous Electron Beam Accelerator Facility (Southeastern Universities Research Association) Newport News, VA		
Lawrence Berkeley Laboratory (University of California), Berkeley, CA		
Lawrence Livermore National Laboratory (University of California), Livermore, CA		
Fermi National Scientific Laboratory (Universities Research Association, Inc.), Batavia, IL		
Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA		

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TABLE IX (cont.)

Agency _____

Federally funded research and development centers (FFRDCs). (Report obligations for any FFRDC used by respondent agency.)	R&D obligations	R&D plant obligations
Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA		
Los Alamos National Scientific Laboratory (University of California), Los Alamos, NM		
National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR		
National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO		
National Optical Astronomy Observatories (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ 3/		
National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV		
Oak Ridge Associated Universities, (Oak Ridge Associated Universities, Inc.) Oak Ridge, TN		
Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ		
Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA		
Stanford Linear Accelerator Center (Leland Stanford Jr. University), Stanford, CA		
Institute for Advanced Technology (University of Texas), Austin, TX		
Total	4/	5/
Administered by other nonprofit institutions:		
Aerospace Corporation, El Segundo, CA		
Arroyo Center (RAND CORP), 7/ Santa Monica, Calif 7/		
Center for Naval Analyses, Alexandria, VA		
Institute for Def. Analyses (IDA), Alexandria, VA		
Logistics Management Institute (LMI), Bethesda, MD		
C3I Federal Contract Research Center 6/ (MITRE Corp.), Bedford, MA		
National Defense Research Institute, (RAND Corporation), Santa Monica, Calif. 7/		
Pacific Northwest Laboratories (Battelle Memorial Institute) Richland, WA		
Project Air Force (RAND Corporation), 7/ Santa Monica, CA		
Solar Energy Research Institute (Midwest Research Institute), Golden, CO		
Inhalation Toxicology Research Institute (Lovelace Biomedical and Environmental Research Institute) Albuquerque, NM		

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TABLE IX (cont.)

Agency _____

Federally funded research and development centers (FFRDCs). (Report obligations for any FFRDC used by respondent agency.)	R&D obligations	R&D plant obligations
Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX..		
Center for Advanced Aviation System Development (MITRE Corp.), McLean, VA.....		
T o t a l	8/	9/

1/ Totals equal combined obligations for basic research, applied research, and development, as reported in item 4 of table VI.
2/ Totals equal item 3 of table XI for 1990.
3/ As of February, 1984 this center incorporates four divisions, three of which were formerly separate FFRDCs - Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory, and the National Solar Observatory (formerly Sacramento Peak Observatory). The fourth division, the Advanced Development Program Division is located in Tucson, Arizona and is a new entity with primary responsibility for advanced research in the development of large telescopes.
4/ Totals equal combined obligations for basic research, applied research, and development, as reported in item 6 of table VI.
5/ Totals equal item 5 of table XI for 1990.
6/ Only the C3I Federal Contract Research Center and the Center for Advanced Aviation System Development portions of the MITRE corporation should be reported as FFRDCs. All other agency support to MITRE should be reported under "other nonprofit institutions excluding FFRDCs."
7/ Only the Project Air Force, the National Defense Research Institute, and the Arroyo Center Staff portions of the RAND Corp. should be reported as FFRDCs. All other agency support to RAND should be reported under "other nonprofit institutions excluding FFRDCs."
8/ Totals equal combined obligations for basic research, applied research, and development, as reported in item 8 of table VI.
9/ Totals equal item 7 of table XI for 1990.

Note: Each supporting agency should report obligations to each FFRDC it uses even though the FFRDC may be under the sponsorship of another agency. See instructions for list of FFRDCs shown by sponsoring agency and administering organization.

TABLE X

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Obligations for basic research and total research and development to foreign performers 1/ by geographic area and country, fiscal year 1990

(Dollars in thousands)

Agency _____

Code	GEOGRAPHIC AREA AND COUNTRY	Basic research only 2/	Total research and development 3/
010000	Europe, total		
010100	Austria		
010200	Belgium		
010300	Denmark		
010400	Finland		
010500	France		
010600	Iceland		
010700	Ireland		
010800	Italy		
010900	Netherlands		
011000	Norway		
011100	Poland		
011200	Portugal		
011300	Spain		
011400	Sweden		
011500	Switzerland		

1/ See instructions for definition of a foreign performer. 2/ Tota of cols. equals basic res. in item 11 in table V
3/ Total of columns equals the sum of basic research, applied research, and development in item 11 in table VI.

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TABLE X (cont.)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Obligations for basic research and total research and development to foreign performers 1/ by geographic area and country, fiscal year 1990

(Dollars in thousands)

Agency _____

Code	GEOGRAPHIC AREA AND COUNTRY	Basic research only 2/	Total research and development 3/
011600	United Kingdom, total		
011610	England		
011620	Scotland		
011630	Bermuda		
011640	Other United Kingdom		
011700	West Germany		
011800	Yugoslavia		
011900	Other Europe		
020000	Asia, total		
020100	Burma		
020200	Cambodia		
020300	Hong Kong		
020400	India		
020500	Indonesia		
020600	Japan		
020700	South Korea		
020800	Malaysia		
020900	Pakistan		
021000	Philippines		
021100	Taiwan		
021200	Thailand		
021400	Other Asia		

1/ See instructions for definition of a foreign performer. 2/ Total of cols. equals basic res. in item 11 in table V
3/ Total of columns equals the sum of basic research, applied research, and development in item 11 in table VI.

TABLE X (cont.)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Obligations for basic research and total research and development to foreign performers 1/ by geographic area and country, fiscal year 1990

(Dollars in thousands)

Agency _____

Code	GEOGRAPHIC AREA AND COUNTRY	Basic research only 2/	Total research and development 3/
030000	Near East, total		
030100	Greece		
030200	Israel		
030300	Jordan		
030400	Lebanon		
030500	Syria		
030600	Turkey		
030700	Egypt		
030800	Other Near East		
040000	Africa, total		
040100	Kenya		
040200	Liberia		
040300	Nigeria		
040400	Sudan		
040500	Uganda		
040600	Union of South Africa		
040700	Other Africa		

1/ See instructions for definition of a foreign performer. 2/ Total of cols. equals basic res. in item 11 in table V
3/ Total of columns equals the sum of basic research, applied research, and development in item 11 in table VI.

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TABLE X (cont.)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Obligations for basic research and total research and development to foreign performers 1/ by geographic area and country, fiscal year 1990

(Dollars in thousands)

Agency _____

Code	GEOGRAPHIC AREA AND COUNTRY	Basic research only 2/	Total research and development 3/
050000	Latin America, total		
050100	Argentina		
050200	Bolivia		
050300	Brazil		
050400	Chile		
050500	Colombia		
050600	Costa Rica		
050700	Ecuador		
050800	El Salvador		
050900	Mexico		
051000	Panama		
051100	Peru		
051200	Uruguay		
051300	Venezuela		
051400	Other Latin America		
060000	Australia		
070000	Canada		
080000	New Zealand		
090000	International organizations		
000000	Total, all areas & organiz.		

1/ See instructions for definition of a foreign performer. 2/ Total of cols. equals basic res. in item 11 in table V
3/ Total of columns equals the sum of basic research, applied research, and development in item 11 in table VI.

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TABLE XI

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Obligations for R&D plant by performer of research and development supported
fiscal years 1990, 1991, and 1992

(Dollars in thousands)

Agency _____

Item	PERFORMER OF RESEARCH AND DEVELOPMENT SUPPORTED	FY 1990		FY 1991		FY 1992
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Estimate	FF XL Estimate
01	Fed. intramural...					
02	Industr. firms, excl. FFRDCs 1/					
03	FFRDCs 1/ adm. by industr. firms....					
04	Univer. & colleges excl. FFRDCs 1/					
05	FFRDCs 1/ adm. by univer. & coll..					
06	Nonprofit inst. excl. FFRDCs 1/					
07	FFRDCs 1/ adm. by nonprofit inst..					
08	State and local government.....					
09	Total, all domes. performers.....					
10	Foreign 2/.....					
00	Total, all performers 3/...					

1/ Federally funded research and development centers.
2/ See instructions for definition of foreign R&D plant.
3/ Equals item 6 of table II.

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Table A. Obligations for research and development, by State and performer, fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
00000	Total	2/	3/	4/	5/	6/	7/	8/	9/
10061	ALABAMA								
11091	ALASKA								
12081	ARIZONA								
13071	ARKANSAS								
14092	CALIFORNIA								
15082	COLORADO								
16011	CONNECTICUT								
17051	DELAWARE								
18052	DIST.OF COLUMBIA								
19053	FLORIDA								
20054	GEORGIA								
21093	HAWAII								
22083	IDAHO								
23031	ILLINOIS								
24032	INDIANA								
25041	IOWA								
26042	KANSAS								
27062	KENTUCKY								
28072	LOUISIANA								
29012	MAINE								

Table A. Obligations for research and development, by State and performer, fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
		2/	3/	4/	5/	6/	7/	8/	9/
30055	MARYLAND								
31013	MASSACHUSETTS								
32033	MICHIGAN								
33043	MINNESOTA								
34063	MISSISSIPPI								
35044	MISSOURI								
36084	MONTANA								
37045	NEBRASKA								
38085	NEVADA								
39014	NEW HAMPSHIRE								
40021	NEW JERSEY								
41086	NEW MEXICO								
42022	NEW YORK								
43056	NORTH CAROLINA								
44046	NORTH DAKOTA								
45034	OHIO								
46073	OKLAHOMA								
47094	OREGON								
48023	PENNSYLVANIA								
49015	RHODE ISLAND								

Table A. Obligations for research and development, by State and performer, fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
		2/	3/	4/	5/	6/	7/	8/	9/
50057	SOUTH CAROLINA								
51047	SOUTH DAKOTA								
52064	TENNESSEE								
53074	TEXAS								
54087	UTAH								
55016	VERMONT								
56058	VIRGINIA								
57095	WASHINGTON								
58059	WEST VIRGINIA								
59035	WISCONSIN								
60088	WYOMING								
61100	OUTLYING AREAS								
62200	OFFICES ABROAD								

*/ Federally funded research and development centers.
1/ Under Outlying Areas include Puerto Rico and the Panama Canal Zone as well as U.S. Territories and possessions. Under Offices Abroad include obligations for research and development performed and/or administered abroad by the U.S. Government.
2/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 1, table VI, of the survey.
3/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 3, table VI, of the survey.
4/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 4, table VI, of the survey.
5/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 5, table VI, of the survey.
6/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 6, table VI, of the survey.
7/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 7, table VI, of the survey.
8/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 8, table VI, of the survey.
9/ Total equals combined obligations for basic res., applied res., and dev., as reported in item 9, table VI, of the survey.

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Table B. Obligations for R&D plant, by State and performer of research and development supported, fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
00000	Total	2/	3/	4/	5/	6/	7/	8/	9/
10061	ALABAMA								
11091	ALASKA								
12081	ARIZONA								
13071	ARKANSAS								
14092	CALIFORNIA								
15082	COLORADO								
16011	CONNECTICUT								
17051	DELAWARE								
18052	DIST.OF COLUMBIA								
19053	FLORIDA								
20054	GEORGIA								
21093	HAWAII								
22083	IDAHO								
23031	ILLINOIS								
24032	INDIANA								
25041	IOWA								
26042	KANSAS								
27062	KENTUCKY								
28072	LOUISIANA								
29012	MAINE				S/L D				

Table B Obligations for R&D plant, by State and performer of research and development supported, fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0004
Interagency Report Control No. 1155 NSF-4A

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
		2/	3/	4/	5/	6/	7/	8/	9/
30055	MARYLAND								
31013	MASSACHUSETTS								
32033	MICHIGAN								
33043	MINNESOTA								
34063	MISSISSIPPI								
35044	MISSOURI								
36084	MONTANA								
37045	NEBRASKA								
38085	NEVADA								
39014	NEW HAMPSHIRE								
40021	NEW JERSEY								
41086	NEW MEXICO								
42022	NEW YORK								
43056	NORTH CAROLINA								
44046	NORTH DAKOTA								
45034	OHIO								
46073	OKLAHOMA								
47094	OREGON								
48023	PENNSYLVANIA								
49015	RHODE ISLAND								

Table B. Obligations for R&D plant, by State and performer of research and development supported, fiscal year 1990 (cont.)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

(Dollars in thousands)

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
		2/	3/	4/	5/	6/	7/	8/	9/
50057	SOUTH CAROLINA								
51047	SOUTH DAKOTA								
52064	TENNESSEE								
53074	TEXAS								
54087	UTAH								
55016	VERMONT								
56058	VIRGINIA								
57095	WASHINGTON								
58059	WEST VIRGINIA								
59035	WISCONSIN								
60088	WYOMING								
61100	OUTLYING AREAS								
62200	OFFICES ABROAD								

*/ Federally funded research and development centers.
1/ Under Outlying Areas include Puerto Rico and the Panama Canal Zone as well as U.S. territories and possessions. Under Offices Abroad incl. obligations for R&D plant located abroad but used in support of R&D performed by agencies of the U.S. Government.
2/ Total equals item 1, table XI, for FY 1990 of the survey.
3/ Total equals item 2, table XI, for FY 1990 of the survey.
4/ Total equals item 3, table XI, for FY 1990 of the survey.
5/ Total equals item 4, table XI, for FY 1990 of the survey.
6/ Total equals item 5, table XI, for FY 1990 of the survey.
7/ Total equals item 6, table XI, for FY 1990 of the survey.
8/ Total equals item 7, table XI, for FY 1990 of the survey.
9/ Total equals item 8, table XI, for FY 1990 of the survey.

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TABLE C

Obligations for basic, applied, and total research performed at universities and colleges, by field of science and engineering, fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual
100000	Life sciences, total						
103020	Biological (excl. envrmtl.)						
103040	Environmental biology						
103060	Agricultural						
106000	Medical						
109000	Life sciences, n.e.c. 2/						
200000	Psychology, total						
201000	Biological aspects						
202000	Social aspects						
209000	Psychological sci., n.e.c.						
300000	Physical sciences, total						
301000	Astronomy						
302000	Chemistry						
303000	Physics						
309000	Physical sciences, n.e.c. 2/						
400000	Environmental sciences, total						
401000	Atmospheric						
402000	Geological						
403000	Oceanography						
409000	Environmental sci., n.e.c. 2/						

TABLE C (cont.)

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual	FF XXXIX Estimate	FF XL Actual
500000	Mathematics and computer sciences, total						
501000	Mathematics						
502000	Computer sciences						
509000	Math. & compt. sci., n.e.c. 2/						
600000	Engineering, total						
601000	Aeronautical						
602000	Astronautical						
603000	Chemical						
604000	Civil						
605000	Electrical						
606000	Mechanical						
607000	Metallurgy and materials						
609000	Engineering, n.e.c. 2/						
700000	Social sciences, total						
701000	Anthropology						
702000	Economics						
705000	Political science						
706000	Sociology						
709000	Social sciences, n.e.c. 2/						
800000	Other sciences, n.e.c. 2/						
000000	Total, all fields 3/						

1/ Basic research plus applied research equals total research.
2/ Not elsewhere classified.
3/ Totals equal totals for basic research and applied research in item 5, table VI.

TABLE D

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Obligations for basic, applied, and total research performed at universities and colleges, by field of science and engineering, fiscal year 1991

(Dollars in thousands)

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate
100000	Life sciences, total						
103020	Biological (excl. envrmtl.)						
103040	Environmental biology						
103060	Agricultural						
106000	Medical						
109000	Life sciences, n.e.c. 2/						
200000	Psychology, total						
201000	Biological aspects						
202000	Social aspects						
209000	Psychological sci., n.e.c.						
300000	Physical sciences, total						
301000	Astronomy						
302000	Chemistry						
303000	Physics						
309000	Physical sciences, n.e.c. 2/						
400000	Environmental sciences, total						
401000	Atmospheric						
402000	Geological						
403000	Oceanography						
409000	Environmental sci., n.e.c. 2/						

TABLE D (cont.)

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research		Applied research		Total research 1/	
		FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate	FF XXXIX Estimate	FF XL Estimate
500000	Mathematics and computer sciences, total						
501000	Mathematics						
502000	Computer sciences						
509000	Math. & compt. sci., n.e.c. 2/						
600000	Engineering, total						
601000	Aeronautical						
602000	Astronautical						
603000	Chemical						
604000	Civil						
605000	Electrical						
606000	Mechanical						
607000	Metallurgy and materials						
609000	Engineering, n.e.c. 2/						
700000	Social sciences, total						
701000	Anthropology						
702000	Economics						
703000	Political science						
704000	Sociology						
709000	Social sciences, n.e.c. 2/						
800000	Other sciences, n.e.c. 2/						
000000	Total, all fields 3/						

1/ Basic research plus applied research equals total research.
2/ Not elsewhere classified.
3/ Totals equal totals for basic research and applied research in item 5, table VII.

TABLE E

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Obligations for basic, applied, and total research performed at universities and colleges by field of science and engineering, fiscal year 1992

(Dollars in thousands)

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research	Applied research	Total research 1/
		FF XL Estimate	FF XL Estimate	FF XL Estimate
100000	Life sciences, total			
103020	Biological (excl. enviromtl.)			
103040	Environmental biology			
103060	Agricultural			
106000	Medical			
109000	Life sciences, n.e.c. 2/			
200000	Psychology, total			
201000	Biological aspects			
202000	Social aspects			
209000	Psychological sci., n.e.c.			
300000	Physical sciences, total			
301000	Astronomy			
302000	Chemistry			
303000	Physics			
309000	Physical sciences, n.e.c. 2/			
400000	Environmental sciences, total			
401000	Atmospheric			
402000	Geological			
403000	Oceanography			
409000	Environmental sci., n.e.c. 2/			

TABLE E (cont.)

Agency _____

Item	FIELD OF SCIENCE AND ENGINEERING	Basic research	Applied research	Total research 1/
		FF XL Estimate	FF XL Estimate	FF XL Estimate
500000	Mathematics and computer sciences, total.....			
501000	Mathematics.....			
502000	Computer sciences.....			
509000	Math. & compt. sci., n.e.c. 2/..			
600000	Engineering, total.....			
601000	Aeronautical.....			
602000	Astronautical.....			
603000	Chemical.....			
604000	Civil.....			
605000	Electrical.....			
606000	Mechanical.....			
607000	Metallurgy and materials.....			
609000	Engineering, n.e.c. 2/.....			
700000	Social sciences, total.....			
701000	Anthropology.....			
702000	Economics.....			
705000	Political science.....			
706000	Sociology.....			
709000	Social sciences, n.e.c. 2/.....			
800000	Other sciences, n.e.c. 2/.....			
000000	Total, all fields 3/			

1/ Basic research plus applied research equals total research.
2/ Not elsewhere classified.
3/ Totals equal totals for basic research and applied research in item 5, table VIII.

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SPECIAL REQUEST TO DOD RESPONDENTS FROM THE OSD

This year the Office of the Secretary of Defense (OSD) is asking that the Military Departments and Defense Agencies separate the data reported on NSF's Table A, "Obligations for Research and Development by State and Performer" into two separate tables, one for the funding of research and one for the funding of development. This will allow NSF to publish accurate and pertinent data for use in policy formulation by the Executive Branch and Congressional policy makers. This additional detail will allow the inclusion of footnotes which will highlight for users of the data the circumstances peculiar to DOD, such as:

- DOD funds the preponderance of Federal development
- DOD development funded at institutions of higher education is typically performed at university-affiliated non-academic laboratories that are separate from the universities' academic departments where university research is typically performed, and
- Geographic distribution of development funding to industry reflects only the location of prime contractors not the numerous subcontractors who perform most of the R&D.

For these special tables developed for the OSD, report all Research (6.1) and Exploratory Development (6.2) obligations as "research" in Table A1, "Obligations for Research by State and Performer." Report all other RDT&E obligations as "development" in Table A2, "Obligations for Development by State and Performer". (Data for Tables A1 and A2 should add to the totals in Table A on the PCSURVEY diskette.)

Tables A1 and A2 are NOT on the PCSURVEY diskette. You are being provided with three hard copies of Tables A1 and A2. One copy is to be retained for your records since the information will not be on your file copy of PCSURVEY.

When you complete the survey, send the original diskette and one hard copy of Tables A1 and A2 to:

Mary Burke
National Science Foundation
Science Resources Studies
Room L-602
Washington, D.C. 20550

Simultaneously, send a copy of the diskette and one hard copy of Tables A1 and A2 to:

ODDDR&E (R&AT/RLM)
The Pentagon, Room 3D367
Washington, D.C. 20301-3082
ATTN: Mary Weiss

Table A1. Obligations for research, by State and performer
fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

CODE NO	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local governments
00000	Total								
10061	ALABAMA								
11091	ALASKA								
12081	ARIZONA								
13071	ARKANSAS								
14092	CALIFORNIA								
15082	COLORADO								
16011	CONNECTICUT								
17051	DELAWARE								
18052	DIST.OF COLUMBIA								
19053	FLORIDA								
20054	GEORGIA								
21093	HAWAII								
22083	IDAHO								
23031	ILLINOIS								
24032	INDIANA								
25041	IOWA								
26042	KANSAS								
27062	KENTUCKY								
28072	LOUISIANA								
29012	MAINE								

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Table A1. Obligations for research, by State and performer, fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
30055	MARYLAND								
31013	MASSACHUSETTS								
32033	MICHIGAN								
33043	MINNESOTA								
34063	MISSISSIPPI								
35044	MISSOURI								
36084	MONTANA								
37045	NEBRASKA								
38085	NEVADA								
39014	NEW HAMPSHIRE								
40021	NEW JERSEY								
41086	NEW MEXICO								
42022	NEW YORK								
43056	NORTH CAROLINA								
44046	NORTH DAKOTA								
45034	OHIO								
46073	OKLAHOMA								
47094	OREGON								
48023	PENNSYLVANIA								
49015	RHODE ISLAND								

Table A1. Obligations for research, by State and performer, fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
50057	SOUTH CAROLINA								
51047	SOUTH DAKOTA								
52064	TENNESSEE								
53074	TEXAS								
54087	UTAH								
55016	VERMONT								
56058	VIRGINIA								
57095	WASHINGTON								
58059	WEST VIRGINIA								
59035	WISCONSIN								
60088	WYOMING								
61100	OUTLYING AREAS								
62200	OFFICES ABROAD								

*/ Federally funded research and development centers.
1/ Under Outlying Areas include Puerto Rico and the Panama Canal Zone as well as U.S. Territories and possessions. Under Offices Abroad include obligations for research and development performed and/or administered abroad by the U.S. Government.

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Table A2. Obligations for Development by State and Performer
fiscal year 1990

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local governments
00000	Total								
10061	ALABAMA								
11091	ALASKA								
12081	ARIZONA								
13071	ARKANSAS								
14092	CALIFORNIA								
15082	COLORADO								
16011	CONNECTICUT								
17051	DELAWARE								
18052	DIST.OF COLUMBIA								
19053	FLORIDA								
20054	GEORGIA								
21093	HAWAII								
22083	IDAHO								
23031	ILLINOIS								
24032	INDIANA								
25041	IOWA								
26042	KANSAS								
27062	KENTUCKY								
28072	LOUISIANA								
29012	MAINE								

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Table A2. Obligations for Developmet by State and Performer
fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

CODE NO.	State 1/	Federal intramural	Industrial firms excluding FFRDCs */	FFRDCs */ admin. by industrial firms	Univ. and colleges excluding FFRDCs */	FFRDCs */ admin. by univ. and colleges	Other nonprofit institut. excluding FFRDCs */	FFRDCs */ admin. by other nonprofit institut.	State and local govern - ments
30055	MARYLAND								
31013	MASSACHUSETTS								
32033	MICHIGAN								
33043	MINNESOTA								
34063	MISSISSIPPI								
35044	MISSOURI								
36084	MONTANA								
37045	NEBRASKA								
38085	NEVADA								
39014	NEW HAMPSHIRE								
40021	NEW JERSEY								
41086	NEW MEXICO								
42022	NEW YORK								
43056	NORTH CAROLINA								
44046	NORTH DAKOTA								
45034	OHIO								
46073	OKLAHOMA								
47094	OREGON								
48023	PENNSYLVANIA								
49015	RHODE ISLAND								

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Table A2. Obligations for Development by State and Performer
fiscal year 1990 (cont.)

(Dollars in thousands)

OMB No. 3145-0006
Interagency Report Control
No. 1155 NSF-AN

Agency _____

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The Science & Technology Information System at the National Science Foundation

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Topic: index

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If you are on the Internet: *telnet stis.nsf.gov*. If you cannot connect, try *telnet 128.150.195.40*. At the login prompt, enter *public*.

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The NSF WAIS server is stis.nsf.gov (128.150.195.40). You can get the ".src" file from the "Directory of Servers" at quake.think.com.

For More Information

For additional assistance contact:

E-mail: *stis-request@nsf.gov* (Internet)
stis-req@NSF (BITNET)
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